



The Public Health and Safety Organization

NSF Product and Service Listings

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<http://info.nsf.org/Certified/PwsChemicals/Listings.asp?>

[Company Name=Univar++&Chemical Name=Sodium+Hydroxide&Plant Country=UNITED+STATES&](http://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=Univar++&ChemicalName=Sodium+Hydroxide&PlantCountry=UNITED+STATES&)

NSF/ANSI/CAN 60 Drinking Water Treatment Chemicals - Health Effects

Univar Solutions USA Inc. DBA
Univar USA Inc.
3075 Highland Parkway
Suite 200
Downers Grove, IL 60515
United States
425-889-3400

Facility : # 1 Distribution Center - Richmond, CA

Sodium Hydroxide

Trade Designation

Caustic Soda 10%

Caustic Soda 13%

Caustic Soda 15%

Caustic Soda 20%

Caustic Soda 25%

Caustic Soda 30%

Caustic Soda 50%

Sodium Hydroxide 10%

Sodium Hydroxide 13%

Product Function

pH Adjustment

pH Adjustment

pH Adjustment

pH Adjustment

pH Adjustment

pH Adjustment

pH Adjustment

pH Adjustment

pH Adjustment

Max Use

500mg/L

384mg/L

333mg/L

250mg/L

200mg/L

165mg/L

100mg/L

500mg/L

384mg/L

Sodium Hydroxide 15%	pH Adjustment	333mg/L
Sodium Hydroxide 20%	pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : # 1 St. Louis, MO

Sodium Hydroxide	Product Function	Max Use
<i>Trade Designation</i>		
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : # 1 Chattanooga, TN

Sodium Hydroxide	Product Function	Max Use
<i>Trade Designation</i>		
Caustic Soda 20%	Corrosion Control pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment Corrosion & Scale Control	200mg/L
Caustic Soda 50%	Corrosion Control pH Adjustment	100mg/L
Sodium Hydroxide 20%	Corrosion Control pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment Corrosion & Scale Control	200mg/L
Sodium Hydroxide 50%	Corrosion Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : # 2 St. Louis, MO

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 30% Solution	Corrosion & Scale Control pH Adjustment	165mg/L
Caustic Soda 50% Solution	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide - 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide 30%	Corrosion & Scale Control pH Adjustment	165mg/L

Facility : # 2 Distribution Center - Toledo, OH

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 50%	Corrosion Control pH Adjustment	100mg/L
Sodium Hydroxide 50%	Corrosion Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Glendale, AZ

Sodium Hydroxide**Trade Designation**

Caustic Soda 50%

Product FunctionpH Adjustment
Corrosion & Scale Control**Max Use**

100mg/L

Sodium Hydroxide 50%

pH Adjustment
Corrosion & Scale Control

100mg/L

Facility : Distribution Center - Phoenix 27th Ave., AZ**Sodium Hydroxide****Trade Designation**

Caustic Soda 15%

Product Function

pH Adjustment

Max Use

333mg/L

Caustic Soda 20%

pH Adjustment

250mg/L

Caustic Soda 25%

pH Adjustment

200mg/L

Caustic Soda 30%

pH Adjustment

165mg/L

Caustic Soda 50%

pH Adjustment

100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : North Little Rock, AR**Sodium Hydroxide****Trade Designation**

Caustic Soda 25%

Product FunctionCorrosion & Scale Control
Sequestering**Max Use**

200mg/L

Caustic Soda 50%

Corrosion & Scale Control
Sequestering

100mg/L

Sodium Hydroxide 25%

Corrosion & Scale Control
Sequestering

200mg/L

Sodium Hydroxide 50%

Corrosion & Scale Control
Sequestering

100mg/L

Facility : Commerce, CA**Sodium Hydroxide****Trade Designation****Product Function****Max Use**

Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 32%	pH Adjustment	156mg/L
Caustic Soda 50%	pH Adjustment	100mg/L
Sodium Hydroxide 15%	pH Adjustment	333mg/L
Sodium Hydroxide 20%	pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 32%	pH Adjustment	156mg/L
Sodium Hydroxide 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Santa Fe Springs, CA

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 32%	pH Adjustment	156mg/L
Caustic Soda 50%	pH Adjustment	100mg/L
Sodium Hydroxide 15%	pH Adjustment	333mg/L
Sodium Hydroxide 20%	pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 32%	pH Adjustment	156mg/L
Sodium Hydroxide 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Wilmington, CA

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
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Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 3%	pH Adjustment	1667mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 50%	pH Adjustment	100mg/L
Sodium Hydroxide 15%	pH Adjustment	333mg/L
Sodium Hydroxide 20%	pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 3%	pH Adjustment	1667mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Fresno, CA

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Redwood City, CA

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Sodium Hydroxide 15%	pH Adjustment	333mg/L
Sodium Hydroxide 20%	pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 33%	pH Adjustment	152mg/L
Sodium Hydroxide 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Visalia, CA

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 50%	pH Adjustment	100mg/L
Sodium Hydroxide 15%	pH Adjustment	333mg/L
Sodium Hydroxide 20%	pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 50%	pH Adjustment	100mg/L

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Facility : Denver, CO

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Jacksonville Contanda Terminal, FL

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
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Caustic Soda 15%	Corrosion & Scale Control pH Adjustment	333mg/L
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 15%	Corrosion & Scale Control pH Adjustment	333mg/L
Sodium Hydroxide 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Tampa, FL

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L

Facility : Tampa, FL

Sodium Hydroxide

Trade Designation	Product Function	Max Use
Caustic Soda 20%	Corrosion & Scale Control	250mg/L
Caustic Soda 25%	Corrosion & Scale Control	200mg/L
Caustic Soda 50%	Corrosion & Scale Control	100mg/L
Sodium Hydroxide 20%	Corrosion & Scale Control	250mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control	200mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Brunswick, GA

Sodium Hydroxide		
Trade Designation	Product Function	Max Use
Caustic Soda 15%	pH Adjustment	333mg/L
	Corrosion & Scale Control	
Caustic Soda 20%	Corrosion & Scale Control	250mg/L
	pH Adjustment	
Caustic Soda 25%	Corrosion & Scale Control	200mg/L
	pH Adjustment	
Caustic Soda 30%	Corrosion & Scale Control	165mg/L
	pH Adjustment	
Caustic Soda 50%	Corrosion & Scale Control	100mg/L
	pH Adjustment	
Sodium Hydroxide 15%	Corrosion & Scale Control	333mg/L
	pH Adjustment	
Sodium Hydroxide 20%	Corrosion & Scale Control	250mg/L
	pH Adjustment	
Sodium Hydroxide 25%	Corrosion & Scale Control	200mg/L
	pH Adjustment	
Sodium Hydroxide 30%	Corrosion & Scale Control	165mg/L
	pH Adjustment	
Sodium Hydroxide 50%	Corrosion & Scale Control	100mg/L
	pH Adjustment	

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Dallas, GA

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Sodium Hydroxide 15%	pH Adjustment	333mg/L
Sodium Hydroxide 20%	pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Savannah, GA**Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	Corrosion & Scale Control pH Adjustment	333mg/L
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 15%	Corrosion & Scale Control pH Adjustment	333mg/L
Sodium Hydroxide 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are NSF Certified.

Facility : Norcross, GA

Sodium Hydroxide	Product Function	Max Use
Trade Designation		
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 32%	Corrosion Control pH Adjustment	156mg/L
Caustic Soda 50%	Corrosion Control pH Adjustment	100mg/L
Sodium Hydroxide 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide 30-49%	Corrosion Control pH Adjustment	100mg/L
Sodium Hydroxide 32%	Corrosion Control pH Adjustment	156mg/L
Sodium Hydroxide 50%	Corrosion Control pH Adjustment	100mg/L
Weak Caustic	Corrosion Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Nampa, ID

Sodium Hydroxide	Product Function	Max Use
Trade Designation		
Caustic Soda 25%	pH Adjustment Corrosion & Scale Control	200mg/L
Caustic Soda 50%	pH Adjustment Corrosion & Scale Control	100mg/L
Sodium Hydroxide 25%	pH Adjustment Corrosion & Scale Control	200mg/L
Sodium Hydroxide 50%	pH Adjustment Corrosion & Scale Control	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Bedford Park, IL

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 50%	pH Adjustment	100mg/L
Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 15%	pH Adjustment	333mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Lemont, IL

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 50%	pH Adjustment	100mg/L
Sodium Hydroxide 15%	pH Adjustment	333mg/L
Sodium Hydroxide 17%	pH Adjustment	294mg/L
Sodium Hydroxide 20%	pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Sauget, IL

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
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Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Sergeant Bluff, IA

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 50%	Corrosion & Scale Control	100mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Kansas City, KS

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 30%	Corrosion & Scale Control pH Adjustment	165mg/L

Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Geismar Highway 75, LA

Sodium Hydroxide	Product Function	Max Use
Trade Designation		
Caustic Soda 50%	Corrosion & Scale Control	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Baltimore, MD

Sodium Hydroxide	Product Function	Max Use
Trade Designation		
Caustic Soda 10%	Corrosion & Scale Control pH Adjustment	500mg/L
Caustic Soda 15%	Corrosion & Scale Control pH Adjustment	333mg/L
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Caustic Soda 35%	Corrosion & Scale Control pH Adjustment	143mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L

Sodium Hydroxide 10%	Corrosion & Scale Control pH Adjustment	500mg/L
Sodium Hydroxide 15%	Corrosion & Scale Control pH Adjustment	333mg/L
Sodium Hydroxide 20%	Scale Control pH Adjustment	250mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Sodium Hydroxide 35%	Corrosion & Scale Control pH Adjustment	143mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : St. Paul Westway Terminal, MN

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 25%	Corrosion & Scale Control	200mg/L
Caustic Soda 30%	Corrosion & Scale Control	165mg/L
Caustic Soda 50%	Corrosion & Scale Control	100mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control	200mg/L
Sodium Hydroxide 30%	Corrosion & Scale Control	165mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : St. Paul Terrace Court, MN

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 30%	Corrosion & Scale Control pH Adjustment	165mg/L

Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
NaOH 25%	Corrosion & Scale Control pH Adjustment	200mg/L
NaOH 30%	Corrosion & Scale Control pH Adjustment	165mg/L
NaOH 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Omaha, NE

Sodium Hydroxide	Product Function	Max Use
Trade Designation Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L
	Corrosion & Scale Control	

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Carteret, NJ

Sodium Hydroxide	Product Function	Max Use
Trade Designation Caustic Soda 15%	pH Adjustment	333mg/L

Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 50%	pH Adjustment	100mg/L
Sodium Hydroxide 15%	pH Adjustment	333mg/L
Sodium Hydroxide 20%	pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Terminal - Albuquerque, NM

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 50%	Corrosion & Scale Control	100mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Geneva, NY

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 50%	Corrosion & Scale Control	100mg/L
	pH Adjustment	
Sodium Hydroxide	Corrosion & Scale Control	100mg/L
	pH Adjustment	
Sodium Hydroxide 50%	Corrosion & Scale Control	100mg/L
	pH Adjustment	

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Charlotte, NC

Sodium Hydroxide	Product Function	Max Use
Trade Designation		
Caustic Soda 25%	Corrosion Control pH Adjustment	200mg/L
Caustic Soda 32%	Corrosion Control pH Adjustment	156mg/L
Caustic Soda 50%	Corrosion Control pH Adjustment	100 mg/L
Sodium Hydroxide 25%	Corrosion Control pH Adjustment	200mg/L
Sodium Hydroxide 32%	Corrosion Control pH Adjustment	156mg/L
Sodium Hydroxide 50%	Corrosion Control pH Adjustment	100 mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Wilmington, NC

Sodium Hydroxide	Product Function	Max Use
Trade Designation		
Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 50%	pH Adjustment	100mg/L
Sodium Hydroxide 15%	pH Adjustment	333mg/L
Sodium Hydroxide 20%	pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 50%	pH Adjustment	100mg/L

Facility : Distribution Center - Grand Forks, ND

Sodium Hydroxide	Product Function	Max Use
Trade Designation		
Caustic Soda 50%	Corrosion & Scale Control	100mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Cincinnati, OH

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Walbridge, OH

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Portland, OR

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	Corrosion & Scale Control	333mg/L
Caustic Soda 20%	Corrosion & Scale Control	250mg/L
Caustic Soda 25%	Corrosion & Scale Control	200mg/L

Caustic Soda 30%	Corrosion & Scale Control	165mg/L
Caustic Soda 33%	Corrosion & Scale Control	152mg/L
Caustic Soda 35%	Corrosion & Scale Control	143mg/L
Caustic Soda 50%	Corrosion & Scale Control	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Altoona, PA

Sodium Hydroxide		
<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 10%	Corrosion & Scale Control pH Adjustment	500mg/L
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 35%	Corrosion & Scale Control pH Adjustment	143mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Bunola, PA

Sodium Hydroxide		
<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 10%	Corrosion & Scale Control pH Adjustment	500mg/L
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Caustic Soda 35%	Corrosion & Scale Control pH Adjustment	143mg/L

Caustic Soda 40%	Corrosion & Scale Control pH Adjustment	125mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Morrisville Steel Road, PA

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 19%	pH Adjustment	263mg/L
Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Philadelphia, PA

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	pH Adjustment	333mg/L
Caustic Soda 18%	pH Adjustment	277mg/L
Caustic Soda 20%	pH Adjustment	250mg/L
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 32%	pH Adjustment	156mg/L
Caustic Soda 50%	pH Adjustment	100mg/L
Sodium Hydroxide 15%	pH Adjustment	333mg/L
Sodium Hydroxide 18%	pH Adjustment	277mg/L
Sodium Hydroxide 20%	pH Adjustment	250mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 30%	pH Adjustment	165mg/L
Sodium Hydroxide 32%	pH Adjustment	156mg/L
Sodium Hydroxide 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Middletown, PA

Sodium Hydroxide		
<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 10%	Corrosion & Scale Control pH Adjustment	500mg/L
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 35%	Corrosion & Scale Control pH Adjustment	143mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 7%	Corrosion & Scale Control	700mg/L
Sodium Hydroxide 10%	Corrosion & Scale Control pH Adjustment	500mg/L
Sodium Hydroxide 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide 35%	Corrosion & Scale Control pH Adjustment	143mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 7%	Corrosion & Scale Control pH Adjustment	700mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Morrisville, PA

Sodium Hydroxide		
<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 25%	pH Adjustment	200mg/L

Caustic Soda 50%	pH Adjustment	100mg/L
Sodium Hydroxide 25%	pH Adjustment	200mg/L
Sodium Hydroxide 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Providence, RI

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 10% Solution	Corrosion & Scale Control pH Adjustment	500mg/L
Caustic Soda 25% Solution	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 35% Solution	Corrosion & Scale Control pH Adjustment	143mg/L
Caustic Soda 50% Solution	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Spartanburg, SC

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 20%	Corrosion Control pH Adjustment	250 mg/L
Caustic Soda 25%	Corrosion Control pH Adjustment	200 mg/L
Caustic Soda 32%	Corrosion Control pH Adjustment	156mg/L
Caustic Soda 50%	Corrosion Control pH Adjustment	100 mg/L
Sodium Hydroxide 20%	Corrosion Control pH Adjustment	250 mg/L
Sodium Hydroxide 25%	Corrosion Control pH Adjustment	200 mg/L

Sodium Hydroxide 30-49%	Corrosion Control pH Adjustment	100mg/L
Sodium Hydroxide 32%	Corrosion Control pH Adjustment	156mg/L
Sodium Hydroxide 50%	Corrosion Control pH Adjustment	100 mg/L
Weak Caustic	Corrosion Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Chattanooga, TN

Sodium Hydroxide	Product Function	Max Use
Trade Designation Caustic Soda 20%	pH Adjustment Corrosion & Scale Control	250mg/L
Caustic Soda 25%	pH Adjustment Corrosion & Scale Control	200mg/L
Caustic Soda 50%	pH Adjustment Corrosion & Scale Control	100mg/L
Sodium Hydroxide 20%	pH Adjustment Corrosion & Scale Control	250mg/L
Sodium Hydroxide 25%	pH Adjustment Corrosion & Scale Control	200mg/L
Sodium Hydroxide 50%	pH Adjustment Corrosion & Scale Control	100mg/L

Facility : Murfreesboro, TN

Sodium Hydroxide	Product Function	Max Use
Trade Designation Caustic Soda 20%	Corrosion Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion Control pH Adjustment	200mg/L
Caustic Soda 50%	Corrosion Control pH Adjustment	100mg/L

Sodium Hydroxide 20%	Corrosion Control pH Adjustment	250mg/L
Sodium Hydroxide 25%	Corrosion Control pH Adjustment	200mg/L
Sodium Hydroxide 50%	Corrosion Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Borger, TX

Sodium Hydroxide	Product Function	Max Use
<i>Trade Designation</i> Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Houston, TX

Sodium Hydroxide	Product Function	Max Use
<i>Trade Designation</i> Caustic Soda - 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda - 50%	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide	Corrosion & Scale Control pH Adjustment	100mg/L
Sodium Hydroxide - 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Sodium Hydroxide - 50%	Corrosion & Scale Control pH Adjustment	100mg/L

Sodium Hydroxide Solution	pH Adjustment Corrosion & Scale Control	100mg/L
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NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Salt Lake City, UT

Sodium Hydroxide	Product Function	Max Use
<i>Trade Designation</i>		
Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 30%	pH Adjustment	165mg/L
Caustic Soda 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Chester, VA

Sodium Hydroxide	Product Function	Max Use
<i>Trade Designation</i>		
Caustic Soda 25%	Corrosion Control pH Adjustment	200mg/L
Caustic Soda 32%	Corrosion Control pH Adjustment	156mg/L
Caustic Soda 50%	Corrosion Control pH Adjustment	100mg/L
Sodium Hydroxide 25%	Corrosion Control pH Adjustment	200mg/L
Sodium Hydroxide 32%	Corrosion Control pH Adjustment	156mg/L
Sodium Hydroxide 50%	Corrosion Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center - Vancouver, WA

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	Corrosion & Scale Control	333mg/L
Caustic Soda 20%	Corrosion & Scale Control	250mg/L
Caustic Soda 25%	Corrosion & Scale Control	200mg/L
Caustic Soda 30%	Corrosion & Scale Control	165mg/L
Caustic Soda 50%	Corrosion & Scale Control	100mg/L
Sodium Hydroxide 15%	Corrosion & Scale Control	333mg/L
Sodium Hydroxide 20%	Corrosion & Scale Control	250mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control	200mg/L
Sodium Hydroxide 30%	Corrosion & Scale Control	165mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Distribution Center – Spokane, WA**Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda - 25%	pH Adjustment	200mg/L
	Corrosion & Scale Control	
Caustic Soda - 50%	pH Adjustment	100mg/L
	Corrosion & Scale Control	
Sodium Hydroxide - 25%	pH Adjustment	200mg/L
	Corrosion & Scale Control	
Sodium Hydroxide - 50%	pH Adjustment	100mg/L
	Corrosion & Scale Control	

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Kent, WA**Sodium Hydroxide**

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 15%	Corrosion & Scale Control	333mg/L
Caustic Soda 20%	Corrosion & Scale Control	250mg/L
Caustic Soda 25%	Corrosion & Scale Control	200mg/L

Caustic Soda 30%	Corrosion & Scale Control	165mg/L
Caustic Soda 33%	Corrosion & Scale Control	152mg/L
Caustic Soda 35%	Corrosion & Scale Control	143mg/L
Caustic Soda 50%	Corrosion & Scale Control	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Cincinnati Dues Drive, OH

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 10%	Corrosion & Scale Control pH Adjustment	500mg/L
Caustic Soda 12.5%	Corrosion & Scale Control pH Adjustment	400mg/L
Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200mg/L
Caustic Soda 30%	Corrosion & Scale Control pH Adjustment	165mg/L
Caustic Soda 35%	Corrosion & Scale Control pH Adjustment	143mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Dallas Bekay Street, TX

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Caustic Soda 20%	Corrosion Control pH Adjustment	250mg/L
Caustic Soda 25%	Corrosion Control pH Adjustment	200mg/L
Caustic Soda 50%	Corrosion Control pH Adjustment	100mg/L

Sodium Hydroxide 20%	Corrosion Control pH Adjustment	250mg/L
Sodium Hydroxide 25%	Corrosion Control pH Adjustment	200mg/L
Sodium Hydroxide 50%	Corrosion Control pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Houston, TX

Sodium Hydroxide	Product Function	Max Use
<i>Trade Designation</i> Caustic Soda 20%	Corrosion & Scale Control pH Adjustment	250 mg/L
Caustic Soda 25%	Corrosion & Scale Control pH Adjustment	200 mg/L
Caustic Soda 50%	Corrosion & Scale Control pH Adjustment	100 mg/L
Sodium Hydroxide 20%	Corrosion & Scale Control pH Adjustment	250 mg/L
Sodium Hydroxide 25%	Corrosion & Scale Control pH Adjustment	200 mg/L
Sodium Hydroxide 50%	Corrosion & Scale Control pH Adjustment	100 mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

Facility : Phoenix 45th Avenue, AZ

Sodium Hydroxide	Product Function	Max Use
<i>Trade Designation</i> Caustic Soda 25%	pH Adjustment	200mg/L
Caustic Soda 50%	pH Adjustment	100mg/L

NOTE: Only products bearing the "NSF 60" designation are Certified by NSF International.

**Univar Solutions USA Inc. DBA
Univar USA Inc.**

17425 Northeast Union Hill Road

Redmond, WA 98052

United States

425-889-3400

Facility : # 18 USA

Sodium Hydroxide

Trade Designation

Product Function

Max Use

Caustic Soda 32%

Corrosion & Scale Control
pH Adjustment

156mg/L

Caustic Soda 50%

Corrosion & Scale Control
pH Adjustment

100mg/L

Sodium Hydroxide 32%

Corrosion & Scale Control
pH Adjustment

156mg/L

Sodium Hydroxide 50%

Corrosion & Scale Control
pH Adjustment

100mg/L

Univar USA Inc.

17411 Northeast Union Hill Road

Redmond, WA 98052

United States

425-889-3400

Facility : # 26 Pittsburg, CA

Sodium Hydroxide

Trade Designation

Product Function

Max Use

Caustic Soda Solution 15%

Corrosion & Scale Control
pH Adjustment

333mg/L

Caustic Soda Solution 20%

Corrosion & Scale Control
pH Adjustment

250mg/L

Caustic Soda Solution 25%

Corrosion & Scale Control
pH Adjustment

200mg/L

Caustic Soda Solution 30%	Corrosion & Scale Control	166mg/L
	pH Adjustment	
Caustic Soda Solution 50%	Corrosion & Scale Control	100mg/L
	pH Adjustment	
Sodium Hydroxide 15%	Corrosion & Scale Control	333mg/L
	pH Adjustment	
Sodium Hydroxide 20%	Corrosion & Scale Control	250mg/L
	pH Adjustment	
Sodium Hydroxide 25%	Corrosion & Scale Control	200mg/L
	pH Adjustment	
Sodium Hydroxide 30%	Corrosion & Scale Control	166mg/L
	pH Adjustment	
Sodium Hydroxide 50%	Corrosion & Scale Control	100mg/L
	pH Adjustment	

Number of matching Manufacturers is 3

Number of matching Products is 426

Processing time was 0 seconds

CERTIFICATE OF ANALYSIS



Univar Solutions
 4600 Dues Drive
 Cincinnati, OH 45246
 PH. 513-714-5253
 FAX 513-874-9891
 www.univarsolutions.com

DATE: 11/22/2021

PRODUCT: Caustic Soda 20%

PRODUCT GRADE: NSF Membrane

UNIVAR SOLUTIONS PRODUCT CODE: 16146333

UNIVAR SOLUTIONS LOT NUMBER: 0002632762

<u>Property</u>	<u>Specifications</u>	<u>Analysis</u>	<u>Test Methods</u>
Appearance	Clear, colorless liquid	Passes	TM 2140
Na ₂ O, % wt.	14.72 - 16.27	16.22	TM 2030
NaOH, % wt.	19.00 - 21.00	20.92	TM 2030
Specific Gravity, 60°F	1.2124 - 1.2345	1.2300	TM 3290
Pounds Per Gallon	10.11 - 10.30	10.25	Calculated

Univar Solutions

Riley Hawkins

Riley Hawkins

Lab Technician



Note:

Please consult the SDS for further information.
 Univar Solutions represents only that the Product shall meet the specifications herein. All transactions involving this Product are subject to Univar Solutions' standard Terms and Conditions, available at www.univarsolutions.com or upon request. Univar Solutions makes no additional representations or warranties, express or implied, as to the Product.

Safety Data Sheet

CAUSTIC SODA 20%

Version 1.4

Revision Date: 02/01/2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CAUSTIC SODA 20%

Manufacturer or supplier's details

Company : Univar Solutions USA, Inc.

Address : 3075 Highland Pkwy Suite 200
Downers Grove, IL 60515
United States of America (USA)

Emergency telephone number:
Transport North America: CHEMTREC (1-800-424-9300)
CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Responsible Party: Product Compliance Department
E-mail: SDSNA@univarsolutions.com
SDS Requests: 1-855-429-2661
Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Corrosive to metals : Category 1

Skin corrosion : Category 1A

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:**
P234 Keep only in original container.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

Safety Data Sheet

CAUSTIC SODA 20%

Version 1.4

Revision Date: 02/01/2023

CENTER/ doctor.
 P363 Wash contaminated clothing before reuse.
 P390 Absorb spillage to prevent material damage.
Storage:
 P405 Store locked up.
 P406 Store in corrosive resistant container with a resistant inner liner.
Disposal:
 P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards
 None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical name	Weight percent
1310-73-2	Sodium hydroxide	20 - 30

Actual concentration is withheld as a trade secret
 Any Concentration shown as a range is due to batch variation.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
 Consult a physician.
 Show this safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.
 If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
 If on skin, rinse well with water.
 If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
 In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 Continue rinsing eyes during transport to hospital.
 Remove contact lenses.
 Protect unharmed eye.
 Keep eye wide open while rinsing.
 If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
 Do NOT induce vomiting.
 Do not give milk or alcoholic beverages.
 Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician.

Safety Data Sheet
CAUSTIC SODA 20%

Version 1.4

Revision Date: 02/01/2023

Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and

Safety Data Sheet

CAUSTIC SODA 20%

Version 1.4

Revision Date: 02/01/2023

kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1310-73-2	Sodium hydroxide	C	2 mg/m3	ACGIH
		C	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z-1
		C	2 mg/m3	OSHA P0
		C	2 mg/m3	CAL PEL

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Colour : No data available
Odour : No data available
Odour Threshold : No data available
pH : No data available

Safety Data Sheet
CAUSTIC SODA 20%

Version 1.4

Revision Date: 02/01/2023

Freezing Point	: No data available
Boiling Point	: No data available
Flash point	: > 101 °C (> 214 °F)
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: 1.22 - 1.23
Density	: 10.23 lb/gal
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: Exposure to moisture temperature extremes
Incompatible materials	: Acids Halogenated compounds Metals organic nitro compounds Zinc

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Components:****1310-73-2:**

Acute oral toxicity : LD50 (Rabbit): 325 mg/kg

Skin corrosion/irritation**Components:****1310-73-2:**

Species: Rabbit

Result: Causes severe burns.

Safety Data Sheet
CAUSTIC SODA 20%

Version 1.4

Revision Date: 02/01/2023

Serious eye damage/eye irritation**Components:****1310-73-2:**

Species: Rabbit

Result: Risk of serious damage to eyes.

Carcinogenicity**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Further information**Product:**

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects**Product:**

Ozone-Depletion Potential

; Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Safety Data Sheet

CAUSTIC SODA 20%

Version 1.4

Revision Date: 02/01/2023

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922
- Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation):

UN1824, Sodium hydroxide solution, 8, II

IATA (International Air Transport Association):

UN1824, Sodium hydroxide solution, 8, II

IMDG (International Maritime Dangerous Goods):

UN1824, SODIUM HYDROXIDE SOLUTION, 8, II, Flash Point:> 101 °C(> 214 °F)

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium hydroxide	1310-73-2	1000	4901

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

- SARA 311/312 Hazards** : Corrosive to metals
Skin corrosion or irritation
Serious eye damage or eye irritation

- SARA 302** : This material does not contain any components with a section 302 EHS TPQ.

- SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Safety Data Sheet
CAUSTIC SODA 20%

Version 1.4

Revision Date: 02/01/2023

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMII Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

1310-73-2 Sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

1310-73-2 Sodium hydroxide

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know

1310-73-2 Sodium hydroxide

Pennsylvania Right To Know

7732-18-5 Water

1310-73-2 Sodium hydroxide

California Prop 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TSCA : On the inventory, or in compliance with the inventory

DSL : On the inventory, or in compliance with the inventory

AICS : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

Safety Data Sheet

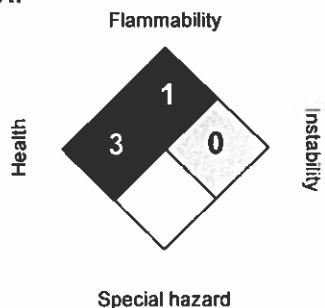
CAUSTIC SODA 20%

Version 1.4

Revision Date: 02/01/2023

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3/
FLAMMABILITY	1
PHYSICAL HAZARD	4

0 = not significant, 1 =Sight,
2 = Moderate, 3 = High
4 =Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

Revision Date : 02/01/2023

Material number:

16193365, 16191666, 16191667, 16170017, 16188968, 16188877, 16188855, 16160839, 16158862, 16168959, 16168217, 16170945, 16164464, 16164324, 16164313, 16164738, 16156587, 16154002, 16156319, 16172347, 16153870, 16155538, 16161020, 16160324, 16160497, 16152994, 16155178, 16146333, 16147878, 16154226, 16145944, 16153005, 16152704, 16145241, 16146002, 16147845, 16143381, 16143388, 16141133, 16142306, 16141295, 16133683, 542058, 69095, 86948, 70679, 87290, 21980

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenar-	OSHA	Occupational Safety & Health

Safety Data Sheet
CAUSTIC SODA 20%

Version 1.4

Revision Date: 02/01/2023

	io Tool		Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

CERTIFICATE OF ANALYSIS

Sodium Hydroxide, 25% Solution

TANK 20012

IMTT

Richmond, CA

Customer: **Bay Area Chemical Consortium, CA**

Date of Delivery: 2-6-20

Order Number: 1000062827

Shipper ID: FMTT

11245242

<u>Property</u>	<u>Unit</u>	<u>Result</u>	<u>BACC Specs</u>
Sodium Hydroxide (NaOH)	Wt %	24.76	23 - 27
Sodium Oxide (Na2O)	Wt%	19.19	15.5 - 20.2
Sodium Chloride (NaCl)	PPM	7	100 MAX
Sodium Carbonate (Na2CO3)	Wt%	0.03	0.15 MAX
Sodium Chlorate (NaClO3)	PPM	3.50	26 MAX
Sodium Sulfate (Na2SO4)	PPM	1	80 MAX
Iron (Fe)	PPM	0.7	5 MAX*
Nickel (NI)	PPM	0.25	0.5 MAX*
Mercury (Hg)	PPM	<0.05	2 MAX
Color / Appearance		Clear & Bright	
Specific Gravity @ 60/60		1.2635	1.20 - 1.35
Density @ 60°F	lbs/gal	10.5228	

* Sodium Hydroxide for wastewater treatment applications may contain up to 9 ppm for iron (Fe) and 3ppm for nickel (Ni)

Effective Date: 12/19/2019

Replaces: 9/27/2019

Testing Company: Intertek

Survey Number: US410-0018488

Shipment Information: Panagia Thalassini

V.1907(PO402215)

Lot Number: II-832612

Manufacturer: FPC Taiwan

(Last Receipt)

**Date of Manufacture: 10/31/2018

Prepared by: _____

Approved by: _____



Certified to
NSF/ANSI 60

ANSI/NSF Standard 60
Drinking Water Treatment Additives 72SN
Maximum Use Level: 100 mg/L (50% Sodium Hydroxide)
Maximum Use Level: 200 mg/L (25% Sodium Hydroxide)
This product is Kosher certified

**Date of Manufacture is indicative only as Caustic Soda Production is a continuous cycle and an actual manufacture date cannot be specifically represented. This date is when the product was loaded at the producer's plant. Actual production date is estimated to be within one month prior to this date.

Consult the SDS for additional information.

All information is based on data obtained from the manufacturer or other recognized technical sources. The information is believed to be accurate. Univar USA Inc. ("Univar") makes no representation or warranty, express, or implied, concerning the accuracy or sufficiency of the information. Univar is not liable for any damages resulting from the use or non-use of the information. All transactions involving this Product are subject to Univar's standard Terms and Conditions, available at www.univarsusa.com or upon request. Univar makes no additional representations or warranties, express or implied, as to the Product.

QA 6.20 x 4: 8/19/2015

Safety Data Sheet

Version 1.6

Revision Date: 01/26/2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : UNIVAR CAUSTIC SODA 25%

Recommended use of the chemical and restrictions on use
Recommended use : Industrial chemical

Manufacturer or supplier's details
Company : Univar Solutions USA, Inc.
Address : 3075 Highland Pkwy Suite 200
Downers Grove, IL 60515
United States of America (USA)

Emergency telephone number:
Transport North America: CHEMTREC (1-800-424-9300)
CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Responsible Party: Product Compliance Department
E-mail: SDSNA@univarsolutions.com
SDS Requests: 1-855-429-2661
Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Corrosive to metals : Category 1

Skin corrosion : Category 1A

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:**
P234 Keep only in original container.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

Safety Data Sheet

Version 1.6

Revision Date: 01/26/2023

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

Storage:

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical name	Weight percent
1310-73-2	Sodium hydroxide	20 - 30

Actual concentration is withheld as a trade secret

Any Concentration shown as a range is due to batch variation.

Synonyms : Sodium Hydroxide,

SECTION 4. FIRST AID MEASURES

- General advice** : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled** : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact** : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact** : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
Take victim immediately to hospital.

Safety Data Sheet

Version 1.6

Revision Date: 01/26/2023

If swallowed : Keep respiratory tract clear.
Do not induce vomiting without medical advice.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Neutralise with acid.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.

Safety Data Sheet

Version 1.6

Revision Date: 01/26/2023

- Conditions for safe storage : To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
- : Keep container tightly closed in a dry and well-ventilated place.
- : Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- : Observe label precautions.
- : Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1310-73-2	Sodium hydroxide	C	2 mg/m ³	ACGIH
		C	2 mg/m ³	NIOSH REL
		TWA	2 mg/m ³	OSHA Z-1
		C	2 mg/m ³	OSHA P0
		C	2 mg/m ³	CAL PEL

Personal protective equipment

- Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Safety Data Sheet

Version 1.6

Revision Date: 01/26/2023

Appearance	: liquid
Colour	: colourless
Odour	: odorless
Odour Threshold	: No data available
pH	: 14 @ 20 - 25 °C (68 - 77 °F)
Freezing Point	: No data available
Boiling Point	: No data available
Flash point	: 94 °C (201 °F) No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: 1.27 - 1.28 @ 20 - 25 °C (68 - 77 °F) Reference substance: (water = 1)
Density	: No data available
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: No data available
Incompatible materials	: Acids Halogenated compounds Metals organic nitro compounds Zinc

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

1310-73-2:

Safety Data Sheet

Version 1.6

Revision Date: 01/26/2023

Acute oral toxicity : LD50 (Rabbit): 325 mg/kg

Skin corrosion/irritation

Components:

1310-73-2:

Species: Rabbit

Result: Causes severe burns.

Serious eye damage/eye irritation

Components:

1310-73-2:

Species: Rabbit

Result: Risk of serious damage to eyes.

Carcinogenicity

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Safety Data Sheet

Version 1.6

Revision Date: 01/26/2023

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
 Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of waste into sewer.
 Do not contaminate ponds, waterways or ditches with chemical or used container.
 Send to a licensed waste management company.
 Dispose of in accordance with all applicable local, state and federal regulations.
 For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922

Contaminated packaging : Empty remaining contents.
 Dispose of as unused product.
 Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation):

UN1824, Sodium hydroxide solution, 8, II

IATA (International Air Transport Association):

UN1824, Sodium hydroxide solution, 8, II

IMDG (International Maritime Dangerous Goods):

UN1824, SODIUM HYDROXIDE SOLUTION, 8, II, Flash Point:94 °C(201 °F)

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium hydroxide	1310-73-2	1000	3921

SARA 304 Extremely Hazardous Substances Reportable Quantity

Safety Data Sheet

Version 1.6

Revision Date: 01/26/2023

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Corrosive to metals
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

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1310-73-2 Sodium hydroxide

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This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know

1310-73-2 Sodium hydroxide

Pennsylvania Right To Know

7732-18-5 Water

1310-73-2 Sodium hydroxide

California Prop 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TSCA : On the inventory, or in compliance with the inventory

DSL : On the inventory, or in compliance with the inventory

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

Safety Data Sheet

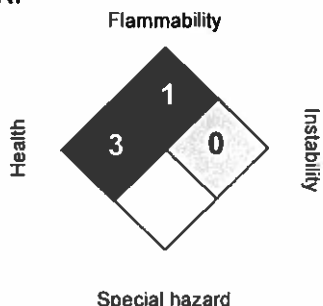
Version 1.6

Revision Date: 01/26/2023

IECSC : On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	4

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

Revision Date : 01/26/2023

Material number:

16181533, 16192173, 16192016, 16132255, 16158399, 16146684, 16182270, 16148128, 16162026, 16188797, 16145004, 16188640, 16163721, 16162553, 16147855, 16151729, 16147016, 16002081, 16002153, 16163814, 16181444, 16185708, 16185366, 16178437, 16176600, 16176259, 16175654, 16175444, 16175415, 16174721, 16176744, 16170086, 16169860, 16169683, 16146335, 16146334, 16143884, 16145401, 16145323, 16145278, 16145243, 16145242, 16125921, 16116103, 16113730, 755848, 650799, 546389, 70561, 53072, 574261, 53570, 16150734, 16149350, 16149457, 16144981, 16145777, 16147137, 16163653, 102698, 16160832, 16137556, 16137474, 16137324, 16152197, 16158393, 16152426, 16144481, 16147885, 16159715, 16143521, 16160487, 16160771, 16160572, 16160486, 16147888, 16147884, 16147854, 16147799, 16148872, 16144724, 16144461, 16148802, 16152705, 16136108, 16135793, 16135298, 16143511, 16143409, 16143472, 16143461, 16143389, 16142429, 16140693, 16140424, 16142307, 16142009, 16141867, 16140353, 16141665

Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level

Safety Data Sheet

Version 1.6

Revision Date: 01/26/2023

DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

CERTIFICATE OF ANALYSIS



Univar Solutions
525 Seaport Blvd.
Redwood City, CA 94063
PH. 650-363-1661
FAX 650-261-2020
www.univarsolutions.com

DATE: 02/14/2023

PRODUCT: Caustic Soda 30%

PRODUCT GRADE: NSF MEMBRANE

UNIVAR SOLUTIONS PRODUCT CODE: 16147859

UNIVAR SOLUTIONS LOT NUMBER: 0840N00064

<u>TEST</u>	<u>RESULTS</u>	<u>SPECIFICATIONS</u>
Assay, NaOH	30.28%	29.0%-31.0%
Assay, Na ₂ O	23.94%	22.45%-24.05%
Assay, Na ₂ CO ₃	0.53%	1.0% max
Specific Gravity @15.6° C	1.342	1.321-1.343
pH	13.367	12.0-14.0
Visual	Pass	Clear/Clean Free of suspended particles

Univar Solutions

Omar Nayfeh

Lab Technician



Certified to
NSF/ANSI 60

Note:

Please consult the SDS for further information.

Univar Solutions represents only that the Product shall meet the specifications herein. All transactions involving this Product are subject to Univar Solutions' standard Terms and Conditions, available at www.univarsolutions.com or upon request. Univar Solutions makes no additional representations or warranties, express or implied, as to the Product.

QA 6.20 x 2; 03/05/2019

Page 1

Safety Data Sheet
CAUSTIC SODA 30%

Version 1.4

Revision Date: 06/19/2020

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CAUSTIC SODA 30%

Manufacturer or supplier's details

Company : Univar Solutions USA, Inc.
Address : 3075 Highland Pkwy Suite 200
Downers Grove, IL 60515
United States of America (USA)

Emergency telephone number:
Transport North America: CHEMTREC (1-800-424-9300)
CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Responsible Party: Product Compliance Department
E-mail: SDSNA@univarsolutions.com
SDS Requests: 1-855-429-2661
Website: www.univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Corrosive to metals : Category 1

Skin corrosion : Category 1A

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:**
P234 Keep only in original container.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

Safety Data Sheet
CAUSTIC SODA 30%

Version 1.4

Revision Date: 06/19/2020

CENTER/doctor.
 P363 Wash contaminated clothing before reuse.
 P390 Absorb spillage to prevent material damage.
Storage:
 P405 Store locked up.
 P406 Store in corrosive resistant container with a resistant inner liner.
Disposal:
 P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards
 None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical name	Weight percent
1310-73-2	Sodium hydroxide	30 - 50

Actual concentration is withheld as a trade secret
 Any Concentration shown as a range is due to batch variation.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
 Consult a physician.
 Show this safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.
 If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
 If on skin, rinse well with water.
 If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
 In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 Continue rinsing eyes during transport to hospital.
 Remove contact lenses.
 Protect unharmed eye.
 Keep eye wide open while rinsing.
 If eye irritation persists, consult a specialist.

if swallowed : Keep respiratory tract clear.
 Do NOT induce vomiting.
 Do not give milk or alcoholic beverages.
 Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician.

Safety Data Sheet
CAUSTIC SODA 30%

Version 1.4

Revision Date: 06/19/2020

Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and

Safety Data Sheet
CAUSTIC SODA 30%

Version 1.4

Revision Date: 06/19/2020

kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with
the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1310-73-2	Sodium hydroxide	C	2 mg/m ³	ACGIH
		C	2 mg/m ³	NIOSH REL
		TWA	2 mg/m ³	OSHA Z-1
		C	2 mg/m ³	OSHA P0

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Colour : No data available
Odour : No data available
Odour Threshold : No data available
pH : No data available

Freezing Point : No data available

Safety Data Sheet
CAUSTIC SODA 30%

Version 1.4

Revision Date: 06/19/2020

Boiling Point	: No data available
Flash point	: > 93 °C (> 199 °F)
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: 1.184 - 1.448
Density	: 1.316 g/cm ³ @ 20 °C (68 °F)
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Incompatible materials	: Acids Halogenated compounds Metals organic nitro compounds Zinc

SECTION 11. TOXICOLOGICAL INFORMATION**Skin corrosion/irritation****Components:****1310-73-2:**

Species: Rabbit

Result: Causes severe burns.

Serious eye damage/eye irritation**Components:****1310-73-2:**

Species: Rabbit

Result: Risk of serious damage to eyes.

Safety Data Sheet
CAUSTIC SODA 30%

Version 1.4

Revision Date: 06/19/2020

Carcinogenicity**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Further information**Product:**

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects**Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.

Safety Data Sheet
CAUSTIC SODA 30%

Version 1.4

Revision Date: 06/19/2020

For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-909-4897

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation):
UN1824, Sodium hydroxide solution, 8, II

IATA (International Air Transport Association):
UN1824, Sodium hydroxide solution, 8, II

IMDG (International Maritime Dangerous Goods):
UN1824, SODIUM HYDROXIDE SOLUTION, 8, II, Flash Point:> 93 °C(> 199 °F)

SECTION 15. REGULATORY INFORMATION
EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium hydroxide	1310-73-2	1000	3236

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Corrosive to metals
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

Safety Data Sheet
CAUSTIC SODA 30%

Version 1.4

Revision Date: 06/19/2020

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

1310-73-2 Sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

1310-73-2 Sodium hydroxide

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know

1310-73-2 Sodium hydroxide

Pennsylvania Right To Know

7732-18-5 Water

1310-73-2 Sodium hydroxide

California Prop 65

: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TSCA : On the inventory, or in compliance with the inventory

DSL : On the inventory, or in compliance with the inventory

AICS : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : Not in compliance with the inventory

Safety Data Sheet

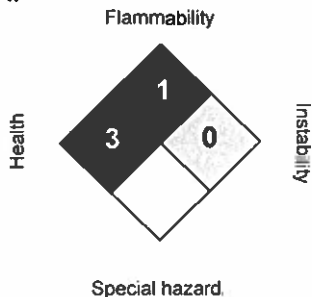
CAUSTIC SODA 30%

Version 1.4

Revision Date: 06/19/2020

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	4

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

Revision Date : 06/19/2020

Legacy SDS: : R0023558

Material number:

16154041, 16158234, 16153712, 16152706, 16153016, 89846, 16045900, 16045899, 16160602, 16145475, 16137411, 16155875, 16155661, 16136682, 16160594, 16160484, 16160449, 16160687, 16160569, 16160762, 16147947, 16147859, 16147857, 16156762, 16154201, 16151717, 16153874, 16158563, 16152707, 16147948, 16147789, 16145778, 16136097, 16135337, 16147861, 16142638

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration

Safety Data Sheet
CAUSTIC SODA 30%

Version 1.4

Revision Date: 06/19/2020

EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

CERTIFICATE OF ANALYSIS
Sodium Hydroxide 50%
Membrane Grade
TANK 502
Vopak
Wilmington, CA

Customer: _____

Order Number: _____

<u>Property</u>	<u>Unit</u>	<u>Result</u>
Sodium Hydroxide (NaOH)	Wt %	49.80
Sodium Oxide (Na2O)	Wt%	38.58
Sodium Chloride (NaCl)	PPM	17
Sodium Carbonate (Na2CO3)	Wt%	0.07
Sodium Chlorate (NaClO3)	PPM	13
Sodium Sulfate (Na2SO4)	PPM	43
Iron (Fe)	PPM	0.4
Color / Appearance		Clear & Bright
Specific Gravity @ 60/60		1.529

Effective Date: 2/28/2020
Replaces: 2/8/2020
*Mfg Date: 1/23/2020

Testing Company: Intertek
Survey Number: US260-0029154
Shipment Information: Tsukuba Galaxy V.2001 (PQ 402242)
Lot Number: 4524181362
Manufacturer: FPC Taiwan
(Last Receipt)

Prepared by: _____

Approved by: _____



Certified to
NSF/ANSI 60

ANS/NSF Standard 60
Drinking Water Treatment Additives 72SN
Maximum use Level (see below)
Maximum Use Level: 100 mg/L (50% Sodium Hydroxide)
Maximum Use Level: 200 mg/L (25% Sodium Hydroxide)
This product is Kosher certified

**** This product meets the tests results of the Food Chemicals Codex (FCC), latest edition monogram ****

*Manufacture Date is indicative only as Caustic Soda Production is a continuous cycle and an actual manufacture date cannot be specifically represented. This date is when the product was loaded at the producer's plant. Actual production date is estimated to be within one month prior to this date.

Consult the SDS for additional information.
All information is based on data obtained from the manufacturer or other recognized technical sources. The information is believed to be accurate. Univar USA Inc. ("Univar") makes no representation or warranty, express, or implied, concerning the accuracy or sufficiency of the information. Univar is not liable for any damages resulting from the use or non-use of the information. All transactions involving this Product are subject to Univar's standard Terms and Conditions, available at www.univarusa.com or upon request. Univar makes no additional representations or warranties, express or implied, as to the Product.
QA 6.20 x 4: 8/19/2015

Safety Data Sheet
CAUSTIC SODA 50%

Version 1.8

Revision Date: 08/29/2022

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**Product name** : CAUSTIC SODA 50%**Recommended use of the chemical and restrictions on use****Recommended use** : Reserved for industrial and professional use.**Manufacturer or supplier's details****Company** : Univar Solutions USA, Inc.
Address : 3075 Highland Pkwy Suite 200
Downers Grove, IL 60515
United States of America (USA)**Emergency telephone number:**

Transport North America: CHEMTREC (1-800-424-9300)

CHEMTREC INTERNATIONAL Tel # 703-527-3887

Additional Information: : Responsible Party: Product Compliance Department
E-mail: SDSNA@univarsolutions.com
SDS Requests: 1-855-429-2661
Website: www.univarsolutions.com**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification****Corrosive to metals** : Category 1**Skin corrosion** : Category 1A**Serious eye damage** : Category 1**GHS label elements****Hazard pictograms** :**Signal word** : Danger**Hazard statements** : H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.**Precautionary statements** : **Prevention:**
P234 Keep only in original container.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

Safety Data Sheet
CAUSTIC SODA 50%

Version 1.8

Revision Date: 08/29/2022

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

Storage:

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical name	Weight percent
1310-73-2	Sodium hydroxide	50 - 70

Actual concentration is withheld as a trade secret

Any Concentration shown as a range is due to batch variation.

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
Take victim immediately to hospital.
- If swallowed : Keep respiratory tract clear.

Safety Data Sheet
CAUSTIC SODA 50%

Version 1.8

Revision Date: 08/29/2022

Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national

Safety Data Sheet

CAUSTIC SODA 50%

Version 1.8

Revision Date: 08/29/2022

- regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.
- Recommended storage temperature : > 16 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1310-73-2	Sodium hydroxide	C	2 mg/m3	ACGIH
		C	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z-1
		C	2 mg/m3	OSHA P0
		C	2 mg/m3	CAL PEL

Personal protective equipment

- Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Safety Data Sheet

CAUSTIC SODA 50%

Version 1.8

Revision Date: 08/29/2022

Appearance	: liquid
Colour	: No data available
Odour	: No data available
Odour Threshold	: No data available
pH	: 14
Freezing Point (Melting point/freezing point)	: 12 - 15 °C (54 - 59 °F)
Boiling Point (Boiling point/boiling range)	: 140 - 145 °C (284 - 293 °F)
Flash point	: does not flash
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: 1.5298
Density	: 12.76 lb/gal
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Corrosive to metals Exothermic reaction with acids.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: Freezing temperatures. Heat No data available
Incompatible materials	: Acids Metals Oxidizing agents Halogenated compounds organic nitro compounds Zinc Acids Halogenated compounds Metals organic nitro compounds Zinc
Hazardous decomposition products	: Hydrogen

Safety Data Sheet
CAUSTIC SODA 50%

Version 1.8

Revision Date: 08/29/2022

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Components:****1310-73-2:**

Acute oral toxicity : LD50 (Rabbit): 325 mg/kg

Skin corrosion/irritation**Components:****1310-73-2:**

Species: Rabbit

Result: Causes severe burns.

Serious eye damage/eye irritation**Components:****1310-73-2:**

Species: Rabbit

Result: Risk of serious damage to eyes.

Carcinogenicity**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Further information**Product:**

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability

No data available

Safety Data Sheet
CAUSTIC SODA 50%

Version 1.8

Revision Date: 08/29/2022

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects**Product:****Ozone-Depletion Potential** : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data available**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods****Waste from residues** : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
Dispose of in accordance with all applicable local, state and federal regulations.
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922**Contaminated packaging** : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.**SECTION 14. TRANSPORT INFORMATION****DOT (Department of Transportation):**

UN1824, Sodium hydroxide solution, 8, II

IATA (International Air Transport Association):

UN1824, Sodium hydroxide solution, 8, II

IMDG (International Maritime Dangerous Goods):

UN1824, SODIUM HYDROXIDE SOLUTION, 8, II

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know Act**

Safety Data Sheet

CAUSTIC SODA 50%

Version 1.8

Revision Date: 08/29/2022

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium hydroxide	1310-73-2	1000	2000
Sodium hydroxide	1310-73-2	1000	2000

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Corrosive to metals
 Skin corrosion or irritation
 Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

1310-73-2 Sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

1310-73-2 Sodium hydroxide

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know

1310-73-2 Sodium hydroxide

Pennsylvania Right To Know

1310-73-2 Sodium hydroxide

7732-18-5 Water

California Prop 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

Safety Data Sheet

CAUSTIC SODA 50%

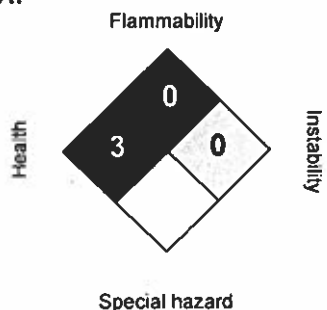
Version 1.8

Revision Date: 08/29/2022

- NZIoC : On the inventory, or in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

Revision Date : 08/29/2022

Material number:

16191539, 16188943, 16188859, 16188905, 40509, 16144372, 85833, 16187875, 16187706, 16187503, 16187172, 16184289, 16184571, 16183215, 16183115, 16181535, 16174812, 16176162, 16176725, 16175550, 16177057, 16176719, 16176286, 16175611, 16175549, 16177342, 16174633, 16176146, 16175652, 16175317, 16174795, 16174563, 16176924, 16180636, 16169042, 16168322, 16168270, 16168140, 16168139, 16179411, 16169006, 16168617, 16150547, 16162842, 16162538, 16144429, 16173515, 16168911, 16162950, 16162022, 16144216, 16143594, 16162020, 16168720, 16166706, 16152119, 16173289, 16179365, 16166192, 16137935, 16161861, 16143735, 16151817, 85472, 52714, 71460, 54298, 16168314, 16146819, 16163462, 16148908, 16144035, 16166958, 16166445, 16137825, 16151508, 16151289, 16160192, 16147037, 16156058, 16155066, 16135486, 16159912, 16141649, 16140194, 16064783, 16064423, 16036726, 16036725, 613255, 122390, 70451, 103323, 69362, 69435, 16158900, 16135663, 16144460, 16141402,

Safety Data Sheet

CAUSTIC SODA 50%

Version 1.8

Revision Date: 08/29/2022

16155700

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		



CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)
05/31/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Aon Risk Services Central, Inc. Philadelphia PA Office 100 North 18th Street 15th Floor Philadelphia PA 19103 USA	CONTACT NAME: PHONE (A/C. No. Ext): (866) 283-7122 FAX (A/C. No.): 800-363-0105		
	E-MAIL ADDRESS:		
INSURED univar Solutions USA Inc. 3075 Highland Parkway Suite 200 Downers Grove IL 60515 USA	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: ACE American Insurance Company		22667
	INSURER B: ACE Fire Underwriters Insurance Co.		20702
	INSURER C: Indemnity Insurance Co of North America		43575
	INSURER D: Illinois Union Insurance Company		27960
	INSURER E:		
INSURER F:			

COVERAGES **CERTIFICATE NUMBER: 570093377463** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. **Limits shown are as requested**

INSR LTR	TYPE OF INSURANCE	ADDL SUBR (INSR) WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:		XSLG47304775 SIR applies per policy terms & conditions	06/01/2022	06/01/2023	EACH OCCURRENCE \$3,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$3,000,000 MED EXP (Any one person) Excluded PERSONAL & ADV INJURY \$3,000,000 GENERAL AGGREGATE \$3,000,000 PRODUCTS - COMP/OP AGG \$3,000,000
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY		ISA H10699058 Commercial Auto	06/01/2022	06/01/2023	COMBINED SINGLE LIMIT (Ea accident) \$5,000,000 BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)
D	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION		XCEG27380566009 SIR applies per policy terms & conditions	06/01/2022	06/01/2023	EACH OCCURRENCE \$4,000,000 AGGREGATE \$4,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	WLRC70303085 AOS WLRC70303048 MA	06/01/2022	06/01/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE-EA EMPLOYEE \$1,000,000 E.L. DISEASE-POLICY LIMIT \$1,000,000
D	Env Site Liab		PPLG71507944002 Pollution-ClaimsMade Form SIR applies per policy terms & conditions	06/01/2022	06/01/2023	Aggregate \$16,000,000 Ea Condition \$1,000,000 SIR \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 Evidence of Insurance.

CERTIFICATE HOLDER**CANCELLATION**

univar Solutions USA Inc. 3075 Highland Parkway, Suite 200 Downers Grove IL 60515 USA	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE <i>Aon Risk Services Central, Inc.</i>

Holder Identifier :

Certificate No : 570093377463





ADDITIONAL REMARKS SCHEDULE

AGENCY Aon Risk Services Central, Inc.		NAMED INSURED Univar Solutions USA Inc.	
POLICY NUMBER See Certificate Number: 570093377463			
CARRIER See Certificate Number: 570093377463	NAIC CODE	EFFECTIVE DATE:	

ADDITIONAL REMARKS

**THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: ACORD 25 FORM TITLE: Certificate of Liability Insurance**

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER	
INSURER	
INSURER	
INSURER	

ADDITIONAL POLICIES If a policy below does not include limit information, refer to the corresponding policy on the ACORD certificate form for policy limits.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS	
	AUTOMOBILE LIABILITY							
A				MMT H10699125 Truckers Liability	06/01/2022	06/01/2023	Combined Single Limi	\$5,000,000
	WORKERS COMPENSATION							
B		N/A		SCFC70302962 WI	06/01/2022	06/01/2023		
A		N/A		WCUC70303000 Excess WC--CA OH OR,WA SIR applies per policy terms & conditions	06/01/2022	06/01/2023		
	OTHER							
	<input checked="" type="checkbox"/> Claims Made Form							