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# **Section 1: Product & Company Information**

Product Identifier: Sodium Hydroxide 50-70% Solution (All Grades)

### Other Means of Identification

Product Number: 143007 143008 143015 143016 143017 205116 205650

### **Recommended Use and Restrictions on Use**

Recommended Use: Pulping and Bleaching, pH Neutralizer, Detergent, Soaps.

Restrictions on Use: None known.

# Manufacturer / Importer / Supplier / Distributor Information

Company Name: CORECHEM Inc.

Address: 4320 Greenway Drive

Knoxville, TN 37918 USA

**Information Telephone Number:** 1-865-524-4239

Fax Number: 1-865-524-3375 Website: www.corecheminc.com Contact Person: Regulatory Manager

E-mail: regulatory@corecheminc.com

Emergency Phone Number: Chemtrec® 1-800-424-9300 / Outside USA 1-703-527-3887 (monitored 24 hours/day)

# **Section 2: Hazards Identification**

#### GHS Hazard Classification(s)

In accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

## Physical Hazard(s)

Corrosive to Metals - 1

# Health Hazard(s)

Corrosion/Irritation, Skin – 1A (Corrosion)Damage/Irritation, Eye - 1 Acute Toxicity, Oral - 4

# Environmental Hazard(s)

Aquatic, Acute - 3

# **Label Elements**

Signal Word

DANGER

# Hazard Symbol(s)





## Hazard Statement(s)

H290: May be corrosive to metals.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H402: Harmful to aquatic life.

# **Precautionary Statements**

### General

Not applicable.

### Prevention

P234: Keep only in original container.

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P264: Wash face, hands, and any exposed skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

 ${\hbox{\sf P273:}}\ {\hbox{\sf Avoid release}}\ {\hbox{\sf to}}\ {\hbox{\sf the}}\ {\hbox{\sf environment}}.$ 

P280: Wear protective gloves/protective clothing/eye protection/face protection.



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#### Response

P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

P321: Specific treatment (see supplemental first aid instructions on this label).

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 appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

## Hazard(s) not otherwise classified (HNOC)

None known.

# Section 3: Composition/Information on Ingredients

#### Substance

Chemical Identity <sup>2</sup>	Common Name/Synonym(s)	CAS#3	Weight %	Impurity or Stabilizing Additive
<u> </u>	Caustic Soda, Caustic, Alkali, Lye, Caustic Lye, Caustic Soda 50%, Soda Lye, Liquid Caustic, Sodium Hydrate	1310-73-2	50 – 70%	No
Water		7732-18-5	Balance	No

- 1. Information regarding the composition and the percent ranges of the mixtures ingredients are not presented as its Confidential Business Information (CBI). Where a medical emergency exists (as determined by medical professional), timely disclosure of CBI is assured. The information omitted pertains to only the names of the substances and the concentration in the mixture (product) and can only be requested by a doctor/physician or Local/State/Provincial or Federal Authority.
- 2. Non-hazardous ingredients are not presented as to protect the proprietary formula of the product.
- $3. \ "-- "Indicates ingredient is a mixture and contains multiple ingredients or may have no identifying CAS number.\\$

# **Section 4: First-Aid Measures**

# **General Information**

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

### Inhalation

Move to fresh air. If breathing is difficult, give oxygen. If breathing stops, provide artificial respiration. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.

# **Skin Contact**

Take off immediately all contaminated clothing. Wash off IMMEDIATELY with plenty of water for at least 15-20 minutes. Get medical attention immediately! Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes.

### Eye Contac

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

# Ingestion

Call a physician or poison control center immediately. Do not induce vomiting. Immediately rinse mouth and drink plenty of water. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give anything by mouth to an unconscious person. Do not use mouth-to-mouth method if victim ingested the substance.

# Most important symptoms/effects, acute and delayed

### Symptoms

Burning pain and severe corrosive skin damage. Permanent eye damage including blindness could result. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Shortness of breath.

### Indication of immediate medical attention and special treatment needed

### Hazards

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Keep victim under observation.

### Treatment

Due to the severely irritating or corrosive nature of the material, swallowing may lead to ulceration and inflammation of the upper alimentary tract with the hemorrhage and fluid loss. Also, perforation of the esophagus or stomach may occur, leading to mediastinitis or peritonitis and the resultant complications. Mucosal injury following ingestion of this corrosive material may contraindicate the induction of vomiting in the treatment of possible intoxication. Similarly, if gastric lavage is performed, intubation should be done with great care. If oral burns are present or corrosive ingestion is suspected by the patient's history, perform esophagoscopy as soon as possible. Scope should not be passed beyond the first burn because of the risk of perforation. This product contains materials that may cause severe pneumonitis if aspirate. If ingestion has occurred less than 2 hours earlier, carry out careful gastric lavage; use endotracheal cuff if available, to prevent aspiration. Observe patient for respiratory difficulty from aspiration pneumonitis. Give artificial resuscitation and appropriate chemotherapy if respiration is depressed. Medical conditions that may be aggravated by exposure to this product include diseases of the skin, eyes, or respiratory tract.



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# **Section 5: Fire-Fighting Measures**

# **General Fire Hazards**

Not normally a fire hazard. Water content of product prevents ignition. Reacts with most metals to produce hydrogen gas which can make an explosive mixture with air. Closed containers exposed to heat may burst. Spilled material may cause floors and contact surfaces to become slippery.

### Suitable (and Unsuitable) Extinguishing Media

### Suitable Extinguishing Media

Water fog. Foam. Dry chemical powder. Carbon dioxide. Use extinguishing agent suitable for type of surrounding fire.

#### Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire. Do not use halogenated extinguishing agents.

### Specific Hazards Arising from the Chemical

The product itself does not burn. May decompose upon heating to produce corrosive and/or toxic fumes. Contact with metal may release flammable hydrogen gas.

### **Special Protective Equipment and Precautions for Firefighters**

# **Special Fire-Fighting Equipment Procedures**

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.

#### **Special Protective Equipment for Fire-Fighters**

Isolate materials that are not involved in the fire and protect personnel. Remove containers from fire zone whenever possible.

# Section 6: Accidental Release Measures

### Personal Precautions, Protective Equipment and Emergency Procedures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained.

### Methods and Materials for Containment and Clean-Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill, or leak area in all directions.

**Methods for Cleaning Up**: Clean up spills immediately and dispose of waste safely. Absorb spillage to prevent material damage. Cautiously neutralize spilled liquid. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Following product recovery, flush area with water.

Small Spills: Absorb spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination.

# **Notification Procedures**

Notify applicable government authority if release is reportable or could adversely affect the environment.

# **Environmental Precautions**

Prevent entry to sewers and public waters. Avoid release to the environment.

# **Section 7: Handling and Storage**

### **Precautions for Safe Handling**

Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing. Do not breathe vapors, mist, or spray.

**Additional Hazards When Processed:** May be corrosive to metals. May release corrosive vapors.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

### Conditions for Safe Storage, including any Incompatibilities

Technical Measures: Comply with applicable regulations.

**Storage Conditions**: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container.

Incompatible Materials: Metals. Oxidizers. Acids.

# **Section 8: Exposure Controls/Personal Protection**

### **Control Parameters**

# **Occupational Exposure Limits**

Chemical Identity	Type	Value	Source
Sodium Hydroxide	Ceiling	2 mg/m <sup>3</sup>	ACGIH
Sodium Hydroxide	TWA	2 mg/m <sup>3</sup>	US OSHA Table Z-1
Sodium Hydroxide	Ceiling	2 mg/m <sup>3</sup>	NIOSH

# **Biological Limit Values**

The product does not contain any relevant quantities of hazardous materials with assigned biological limit values.

# **Appropriate Engineering Controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.



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#### **General Information**

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

#### **Eye/Face Protection**

Wear chemical goggles and face shield.

### Skin Protection

#### **Hand Protection**

Gloves should be made from butyl rubber, neoprene, natural rubber, nitrile rubber or PVC should be impervious under conditions of use. Discard contaminated gloves. Prior to use, user should confirm impermeability.

Nitrile rubber: Breakthrough time: 480 min. Glove thickness: 0.11mm.

#### Other

Wear appropriate chemical resistant clothing. Clothing should be made from butyl rubber, neoprene, natural rubber, nitrile rubber or PVC should be impervious under conditions of use. Discard contaminated gloves. Prior to use, user should confirm impermeability. Wear impermeable apron and boots. A chemical splash suit should be used when necessary to prevent skin contact with highly corrosive liquids. Locate safety shower and eyewash station close to chemical handling area. Take all precautions to avoid personal contact.

#### **Respiratory Protection**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

 $\textbf{Respirator type}: Chemical \ respirator \ with \ organic \ vapor \ cartridge \ and \ full \ face piece.$ 

Filter type: ABEK

### **Hygiene Measures**

When using, do not eat, drink, or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated footwear that cannot be cleaned. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Avoid contact with eyes, skin, and clothing.

# **Section 9: Physical and Chemical Properties**

Appearance:

Physical State: Liquid, Viscous
Color: Clear to Hazy White

Odor: Odorless

Odor Threshold: No data available. pH: 14

Melting Point/Freezing Point: -12 – 10 °C (10 - 50 °F)

Initial Boiling Point and Boiling Range: 105 - 140 °C (221 - 284 °F)

Flash Point: Not applicable.

Evaporation Rate (butyl acetate=1): No data available.

Flammability (solid, gas): Not applicable.

Upper/Lower Limit on Flammability or Explosive Limits

Flammability Limit – Upper: No data available.
Flammability Limit – Lower: No data available.
Explosive Limit – Upper: No data available.
Explosive Limit – Lower: No data available.

**Vapor Pressure:** <24 hPa (approximately) (68 °F (20 °C))

Vapor Density (air =1): 1.38

**Relative Density** (water=1): 1.515 g/ml (50% solution)

Solubility(ies):

Solubility in water: Completely miscible with water.

Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-Ignition Temperature: No data available.

Decomposition Temperature: No data available.

Viscosity: No data available.

Other Information:

Molecular Weight: 40.00 g/mol Formula: NaOH

# **Section 10: Stability and Reactivity**

### Reactivity

May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

### **Chemical Stability**

Material is stable under normal conditions.

# **Possibility of Hazardous Reactions**

Hazardous polymerization does not occur.

### Conditions to Avoid



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Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals. Corrosive to aluminum, tin, zinc, copper and most alloys in which they are present including brass and bronze. Corrosive to steels at elevated temperatures above 40°C (104°F).

### **Incompatible Materials**

Oxidizing agents. Acids. Phosphorus. Aluminum. Zinc. Tin. Initiates or catalyzes violent polymerization of acetaldehyde, acrolein or acrylonitrile.

#### **Hazardous Decomposition Products**

Contact with metals (aluminum, zinc, tin) and sodium tetra hydroborate liberates hydrogen gas.

### **Section 11: Toxicological Information**

## Information on routes of exposure

**Ingestion:** Causes digestive tract burns. Harmful if swallowed. **Inhalation:** May cause irritation to the respiratory system.

**Skin Contact:** Causes severe skin burns.

Eye Contact: Causes severe eye burns and damage.

### **Information on Toxicological Effects**

### Acute Toxicity (List all possible routes of exposure)

Oral

Sodium Hydroxide: LD50 (Rat): 300 - 500 mg/kg

#### Dermal

Sodium Hydroxide: LD50 (Rabbit): > 2 g/kg

#### Inhalation

No data available.

#### **Repeated Dose Toxicity**

Sodium Hydroxide: (Mouse): 40 mg/kg, intraperitoneal

#### Skin Corrosion/Irritation

Causes severe skin burns and eye damage.

Standard Draize Test: 500 mg/24 hour(s) skin - rabbit severe.

### Serious Eye Damage/Eye Irritation

Causes severe eye burns. Causes serious eye damage.

Standard Draize Test: 400  $\mu g$  eyes - rabbit mild; 1 percent eyes - rabbit severe.

### Respiratory/Skin Sensitization

No data available.

# Carcinogenicity

# IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

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.

# US. National Toxicology Program (NTP) Report on Carcinogens

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.

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

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

# **Germ Cell Mutagenicity**

In Vitro

No mutagenic components identified.

In Vivo

No mutagenic components identified.

# **Reproductive Toxicity**

None known.

# Specific Target Organ Toxicity - Single Exposure

None known.

# Specific Target Organ Toxicity – Repeated Exposure

None known.

### **Aspiration Hazard**

Droplets of the product aspirated into the lungs through ingestion or vomiting may cause serious chemical pneumonia.

### **Other Effects**

Chronic effects: Prolonged exposure may cause chronic effects.

# **Section 12: Ecological Information**

## **Ecotoxicity**

# Acute Hazards to the Aquatic Environment

Fish

Sodium Hydroxide: LC50 (Bluegill (Lepomis Macrochirus), 48 h): 99 mg/l



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Sodium Hydroxide: LC50 (Mosquitofish (Gambusia Affinis Affinis), 96 h): 125 mg/l

#### **Aquatic Invertebrates**

No data available.

### **Toxicity to Aquatic Plants**

No data available.

### **Chronic Hazards to the Aquatic Environment**

Fish

No data available.

**Aquatic Invertebrates** 

No data available.

# **Toxicity to Aquatic Plants**

No data available.

# **Persistence and Degradability**

# Biodegradation

The methods for determining the biological degradability are not applicable to inorganic substances.

#### BOD/COD Ratio

No data available.

### **Bioaccumulative Potential**

**Bioconcentration Factor (BCF)** 

Not applicable for inorganic substances.

## Partition Coefficient n-octanol / water (log Kow)

No data available.

### **Mobility in Soil**

No data available.

#### **Other Adverse Effects**

None known.

# **Section 13: Disposal Considerations**

### **Disposal Instructions**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Waste from residues/unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

### **Contaminated Packaging**

Empty containers retain product residue and can be dangerous. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner. Treat package in the same manner as the product.

# **Section 14: Transportation Information**

# US Department of Transportation (DOT)

UN Number: UN 1824

UN Proper Shipping Name: Sodium hydroxide solution

Technical Name: -Hazard Class: 8 Subsidiary Hazard Risk: -Packing Group: II

DOT Label/Placard Exemptions: Not determined Special Provisions: B2, IB2, N34, T7, TP2

Packaging Exceptions: 49CFR 173.154
Packaging Non-Bulk: 49CFR 173.202
Packaging Bulk: 49CFR 173.242
Reportable Quantity (RQ): 1,000lb (454kg)
Marine Pollutant: No

Poison Inhalation Hazard: No

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons

transporting the product know what to do in the event of an accident or spillage.

Emergency Response Guidebook (ERG) #: 154

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

# **Section 15: Regulatory Information**

# **US Federal Regulations**

# Toxic Substance Control Act (TSCA), Chemical Substance Inventory, Section 8(b)

This product or ingredient(s) are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.



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# Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substance List (40 CFR 302.4)

The following chemical(s) in this material are subject to reporting levels established by CERCLA: Sodium Hydroxide (CAS# 1310-73-2): 1000 lbs

### Clean Air Act (CAA), Section 112(r)

No chemical(s) in this material are subject to the reporting requirements of CAA.

# Emergency Planning and Community Right-To-Know Act (EPCRA)

### **EPCRA 302 Extremely Hazardous Substance**

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **EPCRA 304 Emergency Response Notification**

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 304.

# EPCRA 311/312 Emergency and Hazardous Materials Reporting

Fire Hazard: No Sudden Release of Pressure: No Reactive: Yes Acute (Immediate) Health Hazard: Yes Chronic (Delayed) Health Hazard: No

### **EPCRA 313 Toxic Chemical Release Inventory (TRI) Reporting**

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

#### **US State Regulations**

# California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

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

Important Note: Due to the changing nature of regulatory requirements, the information in this document should NOT be considered all-inclusive or authoritative. Users should make their own investigations to determine the suitability of the information for their particular purposes. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.

# **Section 16: Other Information**

### Hazardous Materials Identification System (HMIS®) Classification

Health Hazard: 3 Chronic Health Hazard: / Flammability: 0 Physical Hazard: 2

Personal Protection: X

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

# National Fire Protection Association (NFPA 704) Rating

Health Hazard: 3

Fire Hazard: 0
Reactivity Hazard: 2

Special: N/A

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

Prepared by: Regulatory Manager

Version #: 001

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Last Revised By: Regulatory Assistant C

Last Revision Date: 11/18/2022

Current Revision: 04

Sections Revised: 2-4, 7, 9-13, 15-16

### **Key to Abbreviations and Acronyms**

ATE - Acute Toxicity Estimate BCF - Bioconcentration Factor EC50 - Effective concentration, 50%

IDHL – Immediately Dangerous to Life and Health

Kg – Kilogram I – Liter Ib – Pound

LC50 - Lethal Concentration, 50%

LD50 - Lethal Dose, 50% mg - milligram

ml – milliliter N/A – Not Applicable N/D – Not Determined

PEL – Permissible Exposure Limit REL – Recommended Exposure Limit STEL – Short-term Exposure Limit

TWA - Time weighted average

ACGIH - American Conference of Industrial Hygienists AIHA – American Industrial Hygiene Association

BEI - Biological Exposure Indices CAS – Chemical Abstracts Service DOT – US Department of Transportation EPA – US Environmental Protection Agency

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

IARC - International Agency for Research on Cancer IATA - International Air Transport Association IBC - Intermediate Bulk Container

IMDG - International Maritime Dangerous Goods

NIOSH – National Institute for Occupational Safety and Health

NTP – National Toxicology Program

OSHA – US Occupational Health and Safety Administration SARA – US EPA Superfund Amendments and Reauthorization Act

TSCA – US EPA Toxic Substances Control Act

UN - United Nations



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### References

HSDB® - Hazardous Substances Data Bank

# Disclaimer

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