ESSENTIAL CHEMISTRY. INNOVATIVE SOLUTIONS.

# SAFETY DATA SHEET

**Print Date:** March 8, 2024

## Section 1: Product & Company Information

**Product Identifier:** **Acetone**

**Other Means of Identification**
Product Number: 102000
151750

**Recommended Use and Restrictions on Use**
Recommended Use: Solvent
Restrictions on Use: No data available

**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)**
Flammable, Liquids - 2

**Health Hazard(s)**
(Corrosion)Damage/Irritation, Eye - 2A
Specific Target Organ Toxicity (STOT)-CNS, Single exposure - 3

**Environmental Hazard(s)**
Not classified.

**Label Elements**
**Signal Word**
**DANGER**

**Hazard Symbol(s)**

**Hazard Statement(s)**
H225: Highly flammable liquid and vapor.
H319: Causes serious eye Irritation.
H336: May cause drowsiness or dizziness.

**Precautionary Statements**
**General**
Not applicable.

**Prevention**
P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash face, hands and any exposed skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

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.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P370 + P378: In case of fire: Use suitable extinguishing media for extinction.

**Storage**

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P403 + P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

**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 [2] | Common Name/Synonym(s) | CAS # [3] | Weight % | Impurity or Stabilizing Additive |
|---|---|---|---|---|
| Acetone | 2- Propanone | 67-64-1 | 100% | No |

1. Information regarding the composition and the percentage ranges of the mixtures ingredients are not presented as it 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**

Move victim to fresh air, put at rest and loosen restrictive clothing. Do not allow the victim to become chilled. Keep the victim warm. If the victim is at risk of losing consciousness, position and transport on their side. Call a physician immediately

**Inhalation**

Remove victim to fresh air. Administer oxygen or artificial respiration if breathing is affected or stopped. Seek medical attention.

**Skin Contact**

Wash exposed areas with water and mild soap. Remove contaminated clothing immediately and launder before reuse. If irritation persists, seek immediate medical attention.

**Eye Contact**

Immediately flush your 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**

If swallowed, do not induce vomiting. Seek medical attention. Give activated carbon to reduce the absorption in the gastrointestinal tract.

**Most important symptoms/effects, acute and delayed**

**Symptoms**

Burning eyes and skin. fatigue, nausea, Headache, dizziness, unconsciousness.

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

**Hazards**

No data available.

**Treatment**

Combat acidosis. Monitor alkali reserves. Monitor breathing. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen. Attention: several hours latency period. In severe cases, pneumonia or a pulmonary edema may develop

## Section 5: Fire-Fighting Measures

**General Fire Hazards**

Product is flammable and may be ignited by heat, sparks, flames, or other sources of ignition. (e.g., static electricity, pilot lights, or mechanical/ electrical equipment) Vapors are heavier than air and may accumulate in low areas. Vapors may travel considerable distance to a source of ignition where they can flash back or explode. May create vapor/air explosion hazards, indoors, outdoors or near sewers. If the container is not properly cooled, it can explode in the heat of a fire.

**Suitable (and Unsuitable) Extinguishing Media**

**Suitable Extinguishing Media**

Extinguishing powder, alcohol resistant foam, water spray jet. In enclosed areas: carbon dioxide.

**Unsuitable Extinguishing Media**

Water (quick-acting extinguisher, reel); risk of puddle expansion. Water; risk of puddle expansion.

**Specific Hazards Arising from the Chemical**

Highly flammable liquid and vapor. Explosive mixtures with air may even form at room temperature. Beware of reignition. In case of fire may be liberated: Carbon monoxide and carbon dioxide.

**Special Protective Equipment and Precautions for Firefighters**

**Special Fire-Fighting Equipment Procedures**

Use self-contained breathing apparatus and full bunker gear in fire areas. Evacuate all unprotected personnel from area. Keep containers cool with water fog to minimize swelling, take care not to spread flames with the water used for cooling.

**Special Protective Equipment for Fire-Fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand (OSHA/NIOSH approved or equivalent) and full protective gear.

## Section 6: Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures**

Keep unnecessary personnel away. Keep people away from upwind spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

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

Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Measure the concentration of the explosive gas-air mixture. Dilute/disperse combustible gas/vapour with water curtain. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over spills.

Take up liquid spill into absorbent material. Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite. Scoop absorbed substance into closing containers. Spill must not return in its original container. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling. Notify authorities if product enters sewers or public waters.

Dispose of materials or solid residues at an authorized site.

**Notification Procedures**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

**Environmental Precautions**

Do not let product enter drains. Risk of explosion.

## Section 7: Handling and Storage

**Precautions for Safe Handling**

Ensure all equipment is electrically grounded before beginning transfer operations. Keep away from heat and sources of ignition. Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly. Work under local exhaust/ventilation. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

**Conditions for Safe Storage, including any Incompatibilities**

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials.

## Section 8: Exposure Controls/Personal Protection

**Control Parameters**

**Occupational Exposure Limits**

| Chemical Identity | Type | Value | Source |
|---|---|---|---|
| Acetone | PEL | 1000 ppm | US OSHA Table Z-1 |
| Acetone | PEL | 2400 mg/m3 | US OSHA Table Z-1 |
| Acetone | TWA | 250 ppm | US. ACGIH Threshold Limit Values |
| Acetone | STEL | 500 ppm | US. ACGIH Threshold Limit Values |
| Acetone | TWA | 590 mg/m3 | US. NIOSH |
| Acetone | TWA | 250 ppm | US. 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 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. Provide eyewash station and safety shower.

**Individual protection measures, such as personal protective equipment (PPE)**

**General Information**

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. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

**Eye/Face Protection**

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

**Skin Protection**

**Hand Protection**

Wear appropriate chemical resistant gloves.

**Other**

Impervious aprons and work boots are recommended where splashing may occur.

**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.

**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

Color: Colorless

**Odor:** Sweet, aromatic, slightly fruity

**Odor Threshold:** No data available.

**pH:** 7

**Melting Point/Freezing Point:** -94 °C (-138.4°F)

**Initial Boiling Point and Boiling Range:** 56.1°C (133°F)

**Specific Gravity** No data available

**Flash Point:** -17°C (1.4°F)

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

**Flammability (solid, gas):** No data available.

**Upper/Lower Limit on Flammability or Explosive Limits**

Flammability Limit – Upper: No data available.

Flammability Limit – Lower: No data available.

| | |
|---|---|
| Explosive Limit – Upper: | 13 Vol-% |
| Explosive Limit – Lower: | 2.15 Vol-% |
| **Vapor Pressure:** | at 20°C: 240hPa<br>at 50°C: 800hPa |
| **Vapor Density** (air =1)**:** | 2 |
| **Relative Density** (water=1)**:** | at 20°C: 0.79 g/ml |
| **VOC Content** | 0% |
| **Solubility(ies):** | |
| Solubility in water: | Completely soluble in water. |
| Solubility in ethanol: | Completely soluble in ethanol. |
| Solubility in ether: | Completely soluble in ether. |
| Solubility (other): | No data available. |
| Solubility (other): | No data available. |
| **Partition coefficient (n-octanol/water):** | -0.23 log Pow |
| **Auto-Ignition Temperature:** | 869 °F (465 °C) |
| **Decomposition Temperature:** | Not determined. |
| **Viscosity:** | No data available. |

**Other Information:**

| | |
|---|---|
| Molecular Weight: | Mass- 58.09 g/mol |
| Formula: | $C_3H_6O$ |

## Section 10: Stability and Reactivity

**Reactivity**

Acetone reacts in the presence of bases. Vapors form potentially explosive mixtures with air. Heavier than air, they proceed at floor level and may backflash over great distances when ignited. May become electrostatically charged.

**Chemical Stability**

Product is stable under normal storage conditions.

**Possibility of Hazardous Reactions**

Hazardous polymerization does not occur.

**Conditions to Avoid**

Highly flammable. Concentrated vapors are heavier than air. Take precautionary measures against static discharges. Forms explosive mixtures with air, also in empty, uncleaned containers. May produce, when being mixed with chloritized hydrocarbons and exposed to light, strongly irritating chloric acetone. Eliminate all sources of ignition.

**Incompatible Materials**

Attacks many plastics and rubbers. On contact with barium hydroxide, sodium hydroxide and many other alkaline materials condensations may occur. Avoid contact with strong oxidizing agents, alkalis and amines. Acids, Aldehydes, Alkalis, Amines, Ammonia, Oxidizing agents, reducing agents, chlorine compounds. May form explosive mixtures with chromic anhydride, chromyl alcohol, hexachloromelamine, hydrogen peroxide, permonosulfuric acid, potassium tertbutoxide, and thioglycol.

**Hazardous Decomposition Products**

In case of fire may be liberated: Carbon monoxide and carbon dioxide.

## Section 11: Toxicological Information

**Information on routes of exposure**

**Ingestion:** Dry/sore throat. Gastrointestinal complaints. Risk of aspiration pneumonia. Symptoms similar to those listed under inhalation. AFTER INGESTION OF HIGH QUANTITIES: Irritation of the gastric/intestinal mucosa. Change in the haemogramme/blood composition. Change in urine output. Affection of the renal tissue. Enlargement/affection of the liver.

**Inhalation:** May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

**Skin Contact:** Prolonged skin contact may cause temporary irritation.

**Eye Contact:** Causes serious eye irritation

**Information on Toxicological Effects**

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

**Oral**

Acetone: LD50 (Rat): 5800 mg/kg bw

**Dermal**

Acetone: LD50 (Rat): > 15,800 mg/kg

**Inhalation**

Acetone: LC50 (Rat): 76 mg/L/4h

**Repeated Dose Toxicity**

No data available.

**Skin Corrosion/Irritation**

No data available.

**Serious Eye Damage/Eye Irritation**

Causes serious eye irritation

**Respiratory/Skin Sensitization**

Respiratory sensitization: Not a respiratory sensitizer.
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**

May cause drowsiness and dizziness.

**Specific Target Organ Toxicity – Repeated Exposure**

Not determined.

**Aspiration Hazard**

May be harmful if swallowed and enters airways

**Other Effects**

Prolonged inhalation may be harmful.

**Chronic Effects**

Red skin. Skin rash/inflammation. Dry/sore throat. Headache. Nausea. Feeling of weakness. Loss of weight. Possible inflammation of the respiratory tract.

## Section 12: Ecological Information

**Ecotoxicity**

**Acute Hazards to the Aquatic Environment**

**Fish**

Acetone: LC50 (Pimephales promelas): 6210 – 8120 mg/l 96 h
Acetone: LC50 (Alburnus alburnus (alburnum)): 11,000 mg/L 96 h

**Aquatic Invertebrates**

Acetone: EC50 (Daphnia pulex (Water Flea), 48 h): 8,800 mg/L
Acetone: EC50 (Artemisia salina)24h): 2,100 mg/l

**Toxicity to Aquatic Plants**

Acetone: NOEC (Microcycstics Aeruginosa, 8 h): 530 mg/l/8 d
Acetone: NOEC (Prorocentrum Minimum, 96 h): 430 mg/l

**Chronic Hazards to the Aquatic Environment**

**Fish**

No data available.

**Aquatic Invertebrates**

Acetone: NOEC (Daphnia pulex (water flea); reproduction: 2,212 mg/L

**Toxicity to Aquatic Plants**

No data available.

**Persistence and Degradability**

**Biodegradation**

Readily biodegradable.

**BOD/COD Ratio**

**COD:** 2.21 g O2/g

**BOD:** 1.43g O2/g

**Bioaccumulative Potential**

**Bioconcentration Factor (BCF)**

3 (calculated, BCFWIN v2.17)

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

No data available.

**Mobility in Soil**

Acetone is mobile in soil and may be transported by soil water. Highly mobile in soil.

**Other Adverse Effects**

Do not allow to enter into ground water, surface water, or drains.

## Section 13: Disposal Considerations

**Disposal Instructions**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions

**Contaminated Packaging**

Handle contaminated packages in the same way as the substance itself. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks, and flames. Do not cut, puncture, or weld on or near this container. Follow label warnings until container is thoroughly cleaned or destroyed.

## Section 14: Transportation Information

**US Department of Transportation (DOT)**

| | |
|---|---|
| UN Number: | UN1090 |
| UN Proper Shipping Name: | Acetone |
| Technical Name: | |
| Hazard Class: | 3 |
| Subsidiary Hazard Risk: | - |
| Packing Group: | II |
| DOT Label/Placard Exemptions: | Not determined |
| Special Provisions: | IB2, T4, TP1 |
| Packaging Exceptions: | 49CFR 173.150 |
| Packaging Non-Bulk: | 49CFR 173.202 |
| Packaging Bulk: | 49CFR 173.242 |
| Reportable Quantity (RQ): | 5,000lb (2,270kg) |
| Marine Pollutant: | No |
| Poison Inhalation Hazard: | No |
| Special precautions for user: | Transport within the 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) #: | 127 |

*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.

**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:

Acetone (CAS# 67-64-1)

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

**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 the 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:** | **2** |
| **Chronic Health Hazard:** | ***** |
| **Flammability:** | **3** |
| **Physical Hazard:** | **0** |

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

**National Fire Protection Association (NFPA 704) Rating**

| | |
|---|---|
| **Health Hazard:** | **1** |
| **Fire Hazard:** | **3** |
| **Reactivity Hazard:** | **0** |
| **Special:** | **N/A** |

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

| | |
|---|---|
| Prepared By: | Regulatory Manager |
| Version #: | 001 |
| Issue Date: | September 11, 2015 |
| Last Revised By: | Regulatory Assistant C |
| Last Revision Date: | 2/26/2024 |
| Current Revision: | 02 |
| Sections Revised: | Changes were made to sections 5-12 |

**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
l – Liter
lb – 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
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

STEL – Short-term Exposure Limit
TWA - Time weighted average
TSCA – US EPA Toxic Substances Control Act
UN - United Nations

**References**

HSDB® - Hazardous Substances Data Bank

**Disclaimer**

The information in this SDS was obtained from sources which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.