

Print Date: March 22, 2024

Section 1: Product & Company Information

Product Identifier: Diacetone Alcohol

Other Means of Identification

Product Number: 151000

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

Fax Number: 1-865-524-3375

Information Telephone Number: 1-865-524-4239

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 - 3

Health Hazard(s)

(Corrosion)Damage/Irritation, Eye - 2A Specific Target Organ Toxicity (STOT)-Respiratory Irritation, Single exposure - 3

Environmental Hazard(s)

Not classified.

Label Elements

Signal Word

WARNING

Hazard Symbol(s)





Hazard Statement(s)

H226: Flammable liquid and vapor.

H319: Causes serious eye Irritation.

H335: May cause respiratory Irritation.

Precautionary Statements

General

Not applicable.

Prevention

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P223: Keep away from any possible contact with water, because of violent reaction and possible flash fire.

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.



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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.

P314: Get medical advice/attention 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
Diacetone Alcohol	Diacetone, 4-Hydroxy-4-Methyl-2-	123-42-2	75 - 100%	No
	Pentanone, 2-Methyl-2-Pentanol-4-			
	One			

^{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.

Section 4: First-Aid Measures

General Information

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash contaminated clothing before reuse.

Inhalation

If product mist or vapor causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. If unconscious, maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist or if the victim feels unwell, seek medical attention.

Skin Contact

Immediately wash with soap and water. Get medical attention promptly if irritation develops or persists. Remove contaminated shoes and clothes and clean before reuse.

Eye Contact

Immediately flush their eyes with water. Flush eyes for a minimum of 15 minutes, occasionally lifting and lowering the upper lids. Get medical attention promptly.

Ingestion

Rinse mouth with water if the victim is conscious. Remove dentures if present. Do not induce vomiting unless directed to do so by medical personnel. Vomiting may occur spontaneously. To prevent aspiration of material into the lungs, lay the victim on one side with the head lower than the waist. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Seek immediate medical attention.

Most important symptoms/effects, acute and delayed

Symptoms

Eyes: Causes serious eye irritation with inflammation, swelling, tearing, pain and blurred vision. Vapor may cause eye irritation.

Skin: May cause skin irritation with localized redness, itching and discomfort. Prolonged contact may cause defatting of the skin or dermatitis.

Inhalation: Inhalation of mist or vapor may cause irritation of the upper respiratory tract with sore throat, nasal irritation, headache, cough, chest

^{2.} Non-hazardous ingredients are not presented as to protect the proprietary formula of the product.

^{3. &}quot;— "Indicates ingredient is a mixture and contains multiple ingredients or may have no identifying CAS number.



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tightness and shortness of breath. May cause depression of the central nervous system with drowsiness, dizziness, fatigue, blurred vision, narcosis and muscular weakness. Overexposure may cause unconsciousness, convulsions, respiratory arrest and possibly, death. May be harmful if inhaled.

Ingestion: May cause irritation of the digestive tract with nausea, vomiting and diarrhea. May cause depression of the central system with symptoms parallel to acute inhalation. May effect the liver or kidneys.

Chronic: Individuals with pre-existing skin disorders or respiratory impairment may have increased susceptibility to the effects of exposure to this product. Prolonged or repeated skin contact may cause defatting of the skin, dermatitis or aggravate existing skin conditions. May affect the blood or effect the liver or kidneys. Chronic exposure may damage the central nervous system.

Indication of immediate medical attention and special treatment needed

Hazards

No data available.

Treatment

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep the victim warm. Keep the victim under observation. Symptoms may be delayed.

Section 5: Fire-Fighting Measures

General Fire Hazards

Flammable liquid and vapor. Vapors/dusts may form explosive mixture with the air. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flam, sparks, static electricity, or other sources of ignition. Also, do not reuse containers without commercial cleaning or reconditioning.

Suitable (and Unsuitable) Extinguishing Media

Suitable Extinguishing Media

Extinguishing powder, alcohol resistant foam, carbon dioxide, water fog, dry chemical

Unsuitable Extinguishing Media

No data available.

Specific Hazards Arising from the Chemical

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations.

Special Protective Equipment and Precautions for Firefighters

Special Fire-Fighting Equipment Procedures

Water spray to cool containers or protect personnel. Use it with caution. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

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

Evacuate spill area. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Stay upwind and keep out of the low area. Remove all possible sources of ignition in the surrounding area. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment. Ventilate contaminated area thoroughly shut off leaks, if possible, without personal risk.

Methods and Materials for Containment and Clean-Up

Wear appropriate personal protective equipment. (See exposure controls /personal protection section) Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of the spill. Collect spilled material for disposal. Use only noncombustible material for cleanup. Use clean, non-sparking tools to collect absorbed material. Absorb inert material (e.g., dry sand or earth) then place in a chemical waste container.

Notification Procedures

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

Environmental Precautions

Avoid discharge into drains, water courses or onto the ground.

Section 7: Handling and Storage

Precautions for Safe Handling

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Ground/bond container and receiving equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using the product. Use caution when adding this material to water. See Section 8 of the SDS for Personal Protective Equipment. Avoid contact with eyes. Avoid contact with skin.



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Conditions for Safe Storage, including any Incompatibilities

Store in dry, cool, well-ventilated areas away from incompatible materials (see Section 10.5), food and drink. Transfer only to approved containers having correct labeling. Keep containers tightly closed when not in use. Protect containers against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Containers are hazardous when empty as they contain product residue. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Keep out of reach of children.

Section 8: Exposure Controls/Personal Protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Value	Source
Diacetone Alcohol	TWA	50 ppm 240 mg/m3	US OSHA Table Z-1
Diacetone Alcohol	TWA	50 ppm 238 mg/m3	US. ACGIH Threshold Limit Values

The product does not contain any relevant quantities of hazardous materials with critical values that have to be monitored in the workplace.

Biological Limit Values

Chemical Identity	CAS#	Parameter	Value	Biological Specimen	Source		
					ACGIH – Biological Exposure Indices (BEI)		
	Remarks:						
					ACGIH – Biological Exposure Indices (BEI)		
	Remarks:						
					ACGIH – Biological Exposure Indices (BEI)		
	Remarks:						

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

Appropriate Engineering Controls

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures may include the following: Use sealed systems as far as possible. Adequate explosion-proof ventilation to control airborne concentrations below the exposure limits. Local exhaust ventilation is recommended. Eye wash facilities and emergency shower must be available when handling this product.

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. Eye wash facilities and emergency shower must be available when handling this product.

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

Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Wear protective clothing. Wear protective boots if the situation requires.

Respiratory Protection

NIOSH/MSHA approved respirators may be necessary if airborne concentrations are expected to exceed exposure limits.

Hygiene Measures

Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

Section 9: Physical and Chemical Properties

Appearance:

pH:

Physical State: Liquid Colorless Color: Mild, Sweet Odor: No data available. **Odor Threshold:** No data available. Melting Point/Freezing Point: -47 ° C / -52.6 ° F



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Initial Boiling Point and Boiling 168.0 ° C / 334.4 ° F

Range:

Flash Point: 57.2 ° C / 135 ° F (closed cup)

Evaporation Rate (butyl acetate=1): 0.15

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: 6.9% volume in air
Explosive Limit – Lower: 1.8% volume in air
Vapor Pressure: 1.29 hPA at 20° C

Vapor Density (air = 1): 1.005 Relative Density (water=1): 0.94

Solubility(ies):

Solubility in water: Miscible

Solubility (other): No data available.

Partition coefficient (n- -0.09

octanol/water):

Auto-Ignition Temperature: 643 ° C / 1184 ° F

Decomposition Temperature: No data available.

Viscosity: No data available.

Other Information:

Molecular Weight: 116.2 g/mol Formula: $C_6H_{12}O_2$

Section 10: Stability and Reactivity

Reactivity

This material is stable under normal handling conditions and use.

Chemical Stability

This material is expected to be stable under normal conditions of use.

Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

Conditions to Avoid

Avoid impact, friction, heat, sparks, flame, and source of ignition.

Incompatible Materials

Prevent contact with strong oxidizing agents. Keep away from strong bases. Avoid contact with amines. Keep away from acids.

Hazardous Decomposition Products

Toxic gases/ fumes are given off during burning or thermal decomposition. During combustion carbon monoxide may be formed. During combustion carbon dioxide may be formed.

Section 11: Toxicological Information

Information on routes of exposure

Ingestion: Ingestion of this material may be harmful.

Inhalation: Vapors can cause irritation of the respiratory tract. High concentrations can cause headache, nausea, weakness, lightheadedness, and

stupor (CNS Depression)

Skin Contact: Causes skin irritation. May cause redness and pain. Prolonged or repeated contact can result in defatting and drying of the skin which

may result in skin irritation and dermatitis.

Eye Contact: Causes eye irritation. Contact with eye may cause redness and pain.

Information on Toxicological Effects

Acute Toxicity (List all possible routes of exposure)

Oral

Diacetone Alcohol: LD50 (unspecified species): >2,520 mg/kg

Dermal

Diacetone Alcohol: LD50 (unspecified species): >13,500 mg/kg

Inhalation

Diacetone Alcohol: LC50 (unspecified species) >20 mg/L

Repeated Dose Toxicity

No data available.



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Skin Corrosion/Irritation

Contact with skin may cause dry skin, redness, and pain.

Serious Eye Damage/Eye Irritation

Contact with the eyes may cause redness and pain. Serious/permanent damage is not expected to occur.

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

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

If this liquid is swallowed, aspiration into the lungs may result in chemical pneumonitis.

Other Effects

Vapors are irritating to the eyes and respiratory tract. Exposure may damage liver and kidneys. Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, central nervous system, kidney, liver, skin, and/or eyes.

Section 12: Ecological Information

Ecotoxicity

Acute Hazards to the Aquatic Environment

Fish

Diacetone Alcohol: LC50 (Lipomas Macrochirus, 96 h): 420 ppm Diacetone Alcohol: LC50 (Menidia Beryllina, 96 h): 420 ppm

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

This material is expected to biodegrade.

BOD/COD Ratio

No data available.



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Bioaccumulative Potential

Bioconcentration Factor (BCF)

2 (Low Bioconcentration Potential)

Partition Coefficient n-octanol / water (log Kow)

No data available.

Mobility in Soil

This material is expected to have high mobility in soil.

Other Adverse Effects

No data available.

Section 13: Disposal Considerations

Disposal Instructions

Dispose of waste in accordance with all local, state, and federal regulations. Wear appropriate personal protective equipment. (See exposure controls/ personal protection section) Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. Collect spilled material for disposal. Use only noncombustible material for cleanup. Use clean, non-sparking tools to collect absorbed material. Absorb spill with inert material (e.g., dry sand or earth) then place in a chemical waste container.

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: UN1148

UN Proper Shipping Name: Combustible liquid, n.o.s. (Diacetone Alcohol)

Technical Name: Diacetone Alcohol

Hazard Class: 3

Subsidiary Hazard Risk: -

Packing Group: III

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): None 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) #: 129

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)

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

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



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Sudden Release of Pressure: No Reactive: No 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 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: 1

Chronic Health Hazard: /

Flammability: 2

Physical Hazard: 0
Personal Protection: X

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

National Fire Protection Association (NFPA 704) Rating

Health Hazard: 1

Fire Hazard: 2

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 23, 2015 Last Revised By: Regulatory Assistant C

Last Revision Date: 3/22/2024 Current Revision: 02

Sections Revised: Changes were made to sections 2, 4, 7-10, 14, 16

Key to Abbreviations and Acronyms

ATE - Acute Toxicity Estimate

ACGIH - American Conference of Industrial Hygienists

BCF - Bioconcentration Factor

EC50 - Effective concentration, 50%

ACGIH - American Conference of Industrial Hygienists

AIHA - American Industrial Hygiene Association

BEI - Biological Exposure Indices

 IDHL – Immediately Dangerous to Life and Health
 CAS – Chemical Abstracts Service

 Kg – Kilogram
 DOT – US Department of Transportation

I – Liter EPA – US Environmental Protection Agency

Ib. – Pound GHS - Globally Harmonized System of Class

o. – Pound GHS - Globally Harmonized System of Classification and Labelling of Chemicals

LC50 - Lethal Concentration, 50%

IARC - International Agency for Research on Cancer
LD50 - Lethal Dose, 50%

IATA - International Air Transport Association

mg - milligram IBC - Intermediate Bulk Container

ml – milliliter IMDG - International Maritime Dangerous Goods

N/A – Not Applicable NIOSH – National Institute for Occupational Safety and Health

N/D – Not Determined NTP – National Toxicology Program

PEL – Permissible Exposure Limit

OSHA – US Occupational Health and Safety Administration

REL – Recommended Exposure Limit

SARA – US EPA Superfund Amendments and Reauthorization Act

STEL – Short-term Exposure Limit TSCA – US EPA Toxic Substances Control Act

TWA - Time weighted average 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



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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.