

Section 1: Product & Company Information

Product Identifier: Ethyl Alcohol Denatured SIS A1, 190 Proof

Other Means of Identification

Product Number: 151002

Recommended Use and Restrictions on Use

Recommended Use: Solvent, Chemical Intermediate, Functional Fluids

Restrictions on Use: Active pharmaceutical ingredient (API), Beverages, Tobacco (Prohibited Uses)

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)

Acute Toxicity, Oral - 3

(Corrosion)Damage/Irritation, Eye -
2A

Specific Target Organ Toxicity (STOT)-CNS, Single exposure - 1

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.

H370: Causes damage to organs.

Precautionary Statements

General

Not applicable.

Prevention

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
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.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P263: Avoid contact during pregnancy/while nursing.
P264: Wash face, hands and any exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P281: Use personal protective equipment as required.

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.
P307 + P311: IF exposed: Call a POISON CENTER or doctor/physician.
P308 + P313: IF exposed or concerned: Get medical advice/attention.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P321: Specific Treatment (See first aid section)
P331: Do NOT induce vomiting.
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)

Prolonged or repeated contact may cause skin to become dry or cracked.

Section 3: Composition/Information on Ingredients

Mixture

Chemical Identity ²	Common Name/Synonym(s)	CAS # ³	Weight %	Impurity or Stabilizing Additive
Ethyl Alcohol	-	64-17-5	79.6 – 85.81%	No
Isopropyl Alcohol	IPA	67-63-0	8.76 – 8.97%	No
Methyl Alcohol	Methanol	67-56-1	4.2 – 4.31%	No
Methyl Isobutyl Ketone	MIBK	108-10-1	0.89 – 0.91%	No
Water	-	7732-18-5	0 – 6.5%	No

- Information regarding the composition and the percent 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.
- Non-hazardous ingredients are not presented as to protect the proprietary formula of the product.
- “—” Indicates ingredient is a mixture and contains multiple ingredients or may have no identifying CAS number.

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

Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed. Get immediate medical attention. To prevent aspiration, keep head below the knees.

Skin Contact

Immediately flush affected area with plenty of water while removing contaminated clothing. Wash contaminated clothing before reuse. If irritation persists, get medical attention.

Eye Contact

Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention. Remove contact lenses. Do not use eye ointment unless directed to by a physician.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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

Ingestion of the liquid or exposure to high airborne concentrations can cause central nervous system (CNS) effects ranging from excitation, dizziness, drowsiness, and headache to deep anesthesia, respiratory arrest, and death in cases of severe over-exposure. Repeated or prolonged contact with skin may cause defatting and drying of the skin which may result in dermatitis.

Symptoms: Narcosis. Headache. Behavioral changes. Decrease in motor functions. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.

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

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.

Symptoms may be delayed.

Treatment

Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. There is no specific antidote. Gastric lavage can be used if done shortly after ingestion. GI decontamination with charcoal is not effective unless other toxic co-ingestants are involved.

Section 5: Fire-Fighting Measures**General Fire Hazards**

Highly flammable liquid and vapor. May cause flash fire or explosions. 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, flames, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning.

Suitable (and Unsuitable) Extinguishing Media**Suitable Extinguishing Media**

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

Unsuitable Extinguishing Media

No data available.

Specific Hazards Arising from the Chemical

Extremely flammable well below ambient temperatures. Vapor forms explosive mixture with air and may cause a flash fire.

Special Protective Equipment and Precautions for Firefighters**Special Fire-Fighting Equipment Procedures**

Eliminate all sources of ignition. Prevent entry into waterways, sewers, basements or confined areas. Ethanol vapors are heavier than air and may travel a considerable distance to a source of ignition and flash back. Alcohols burn with a pale blue flame which may be extremely hard to see under normal lighting conditions. Personnel may only be able to feel the heat of the fire without seeing flames. Extreme caution must be exercised in fighting alcohol fires. When exposed to ignition source in air, vapors can burn in open or explode if confined. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Heat may build enough pressure to rupture closed containers/spreading fire/increasing risk of burns/injuries. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. Move containers from fire area if it can be done without risk. Sustained fire attack on vessels may result in a Boiling Liquid Expanding Vapor Explosion (BLEVE). Prevent fire extinguishing water from contaminating surface water or the ground water system. When fighting a fire, notify environmental authorities if liquid enters sewers or public waters. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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 and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

Methods and Materials for Containment and Clean-Up

Highly flammable liquid and vapor. Eliminate all sources of ignition. All equipment used when handling this product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. For large spills: Contain spill with dike to prevent entry into sewers or waterways. Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Notification Procedures

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

Environmental Precautions

If necessary, all contaminated waste water must be treated in a municipal or industrial wastewater treatment plant before release to surface water. Chemical removal by air and water pollution control devices must meet the minimum efficiency requirements needed to reduce exposures to an acceptable level. The discharge of treatment plant effluent to rivers and oceans must achieve the dilution ratio needed to reduce exposures to an acceptable level. The size and capacity of wastewater treatment plants must meet the minimum requirements needed to reduce exposures to an acceptable level. Waste management practices such as incineration, recycling, reuse must be enforced as needed to reduce exposures to an acceptable level. External treatment and disposal of waste should comply with applicable local and/or national regulations. The maximum allowable site tonnage and the days of use should be below the number needed to maintain exposures at an acceptable level.

Section 7: Handling and Storage

Precautions for Safe Handling

Wear recommended personal protective equipment. Eliminate all sources of ignition. Use only in area provided with appropriate exhaust ventilation. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only non-sparking tools. Avoid contact with incompatible agents. Open and handle container with care. Keep in properly labeled containers. Metal containers involved in the transfer of this material should be grounded and bonded. Keep containers tightly closed and in a well-ventilated place. Store away from oxidizers and other combustible material by a distance of at least 20 feet. Metal containers used to store this material should be grounded. Ensure all equipment is electrically grounded before beginning transfer operations. Handle empty containers with care; vapor/residue may be extremely flammable. Do not pressurize or expose empty containers to open flame, sparks, or heat. Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair. Observe precautions pertaining to confined space entry. Avoid breathing vapor, fumes or mist.

Conditions for Safe Storage, including any Incompatibilities

Flammable materials should be stored in a separate safety storage cabinet or room. Store only in tightly closed, properly vented containers away from heat, sparks, open flame and strong oxidizing agents. Store this product in a dry location where it can be protected from the elements. Keep in a well-ventilated place.

Metal containers involved in the transfer of this material should be grounded and bonded. Keep containers tightly closed and in a well-ventilated place. Store away from oxidizers and other combustible material by a distance of at least 20 feet. Metal containers used to store this material should be grounded. Ensure that all relevant regulations regarding explosive atmosphere, and handling and storage facilities of flammable products are followed. Store closed drums with bung in up position.

Section 8: Exposure Controls/Personal Protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Value	Source
Ethyl Alcohol	STEL	1,000 ppm	US. ACGIH Threshold Limit Values
Ethyl Alcohol	TWA	1,000 ppm 1,900 mg/m ³	US OSHA Table Z-1
Isopropyl Alcohol	STEL	400 ppm	US. ACGIH Threshold Limit Values
Isopropyl Alcohol	TWA	200 ppm	US. ACGIH Threshold Limit Values
Isopropyl Alcohol	TWA	400 ppm 980 mg/m ³	US OSHA Table Z-1
Methyl Alcohol	STEL	250 ppm	US. ACGIH Threshold Limit Values
Methyl Alcohol	TWA	200 ppm	US. ACGIH Threshold Limit Values
Methyl Alcohol	TWA	200 ppm 260 mg/m ³	US OSHA Table Z-1

Methyl Isobutyl Ketone	STEL	75 ppm	US. ACGIH Threshold Limit Values
Methyl Isobutyl Ketone	TWA	20 ppm	US. ACGIH Threshold Limit Values
Methyl Isobutyl Ketone	TWA	100 ppm 410 mg/m ³	US OSHA Table Z-1

Biological Limit Values

Chemical Identity	CAS #	Parameter	Value	Biological Specimen	Source
Isopropyl Alcohol	67-63-0	Acetone	40 mg/l	Urine	ACGIH – Biological Exposure Indices (BEI)
Remarks: Sampling Time: End of shift at end of work week					
Methyl Alcohol	67-56-1	Methanol	15 mg/l	Urine	ACGIH – Biological Exposure Indices (BEI)
Remarks: Sampling Time: End of shift					
Methyl Isobutyl Ketone	108-10-1	MIBK	1 mg/l	Urine	ACGIH – Biological Exposure Indices (BEI)
Remarks: Sampling Time: End of shift					

Appropriate Engineering Controls

Explosion-proof general and local exhaust ventilation. 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.

Skin Protection

Hand Protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

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. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information

Other protective Equipment

Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

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: No data available.

Odor Threshold: No data available.

pH: No data available.

Melting Point/Freezing Point: -114.1 °C / -173.4 °F

Boiling Range °F: 176 °F

Flash Point: 57.2 – 62.6°F

Evaporation Rate (butyl acetate=1): Expected to be rapid.

Flammability (solid, gas): Not applicable.

Upper/Lower Limit on Flammability or Explosive Limits

Flammability Limit – Upper: 19 % v/v

Flammability Limit – Lower: 3.3 % v/v

Explosive Limits, vol %	No data available.
Vapor Pressure:	44.6 mm Hg
Vapor Density (air =1):	1.6
Relative Density (g/cm ³)	No data available.
Solubility(ies):	
Solubility in water:	Completely Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-Ignition Temperature:	363 °C / 685 °F (100% Ethyl Alcohol)
Decomposition Temperature:	No data available.
Viscosity:	No data available.
Other Information:	
Molecular Weight:	No data available.
Formula:	No data available.

Section 10: Stability and Reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical Stability

Material is stable under normal conditions.

Possibility of Hazardous Reactions

Not expected to occur under normal conditions of use.

Conditions to Avoid

Avoid impact, Friction, heat, sparks, flame and any source of ignition.

Incompatible Materials

Avoid contact with Caustics. Prevent contact with aldehydes. Avoid contact with chlorinated compounds. Avoid contact with hydrogen peroxide, chromic aldehyde, nitric acid, mixed nitric, sulfuric acid, nitrosyl perchlorate, permonosulfuric acids, potassium tert-butoxide, Sodium hypobromite, chlorinated melamine. Prevent contact with halogens. Prevent contact with strong oxidizing agents. Avoid contact with amines, keep away from acids, keep separate from alkalis.

Hazardous Products

Decomposition
Toxic Gases, fumes are given off during burning or thermal decomposition. During combustion carbon monoxide may be formed. May form peroxides of unknown stability. Combustion can lead to the formation of formaldehyde. Combustion can lead to the formation of formic acid.

Section 11: Toxicological Information

Information on routes of exposure

- Ingestion:** Toxic if swallowed. May be fatal or cause blindness if swallowed. May be fatal if swallowed and enters the airway. Irritating to mouth throat and stomach. Ingestion, may cause nausea, abdominal pain, vomiting, headache, dizziness, shortness of breath, weakness, fatigue, leg cramps, restlessness, confusion, drunken behavior, visual disturbances, drowsiness, coma, and death.
- Inhalation:** Toxic by inhalation. Breathing in the material may irritate the mucous membranes of the nose, throat bronchi and lungs. Vapors can cause irritation of the respiratory tract. High concentrations can cause headaches nausea, weakness, lightheadedness, and stupor (CNS Depression.) May cause dizziness and depression.
- Skin Contact:** Causes skin irritation. Skin absorption may add significantly to the overall toxic effect. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash.)
- Eye Contact:** Causes serious eye irritation. May cause corneal injury. Symptoms may include stinging, tearing, redness and swelling. May also cause blurred vision.

Information on Toxicological Effects

Acute Toxicity (List all possible routes of exposure)

Oral

Ethyl Alcohol: LD50 (Rat): 10,470 mg/kg

Dermal

Ethyl Alcohol: LD50 (Rabbit): 5,071 mg/kg

Inhalation

Ethyl Alcohol: LC50 (Rat): 117 - 125 mg/l (4 hours)

Repeated Dose Toxicity

No data available.

Skin Corrosion/Irritation

Prolonged contact may cause temporary irritation.

Serious Eye Damage/Eye Irritation

Causes serious eye irritation.

Respiratory/Skin Sensitization

Not classified.

Carcinogenicity**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans**

Group 3, Carcinogenic to humans. (67-63-0)

Group 2B, Probably carcinogenic to humans. (108-10-1)

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**

Not classified.

In Vivo

Not classified.

Reproductive Toxicity

May cause harm to breast-fed children.

Ethanol possesses properties that indicate a lactation hazard for human health, but these are manifest only at doses associated with consumption of alcoholic beverages. In the context of an industrial chemical, these hazards do not warrant concern as these are not likely to result from the manufacture and use of ethanol and ethanol containing products.

May damage the unborn child.

Ethanol possesses properties that indicate a developmental hazard for human health, but these are manifest only at doses associated with consumption of alcoholic beverages. In the context of an industrial chemical, these hazards do not warrant concern as these are not likely to result from the manufacture and use of ethanol and ethanol containing products.

Specific Target Organ Toxicity - Single Exposure

Causes damage to organs.

Target Organs: Eyes, Blood, Central Nervous System

May cause respiratory irritation, May cause drowsiness or dizziness.

Target Organs: Respiratory System, Central Nervous System

Specific Target Organ Toxicity - Repeated Exposure

Repeated exposure to high oral doses may damage the liver.

Aspiration Hazard

Not classified.

Other Effects

No data available.

Ecotoxicity**Acute Hazards to the Aquatic Environment****Fish**

No data available.

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

Expected to be readily biodegradable.

BOD/COD Ratio

No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)

No data available.

Mobility in Soil

Completely soluble in water.

Other Adverse Effects

No data available.

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.

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.

US Department of Transportation (DOT)

UN Number: UN1170

UN Proper Shipping Name: Ethanol Solutions

Technical Name: -

Hazard Class: 3

Subsidiary Hazard Risk: -

Packing Group: II

DOT Label/Placard Exemptions: Not determined

Special Provisions: 24, IB2, T4, TP1

Packaging Exceptions: 49CFR 173.150, 4b

Packaging Non-Bulk: 49CFR 173.202

Packaging Bulk: 49CFR 173.242

Reportable Quantity (RQ): -

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) #: 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:

Methyl Alcohol (CAS# 67-56-1)

Methyl Isobutyl Ketone (CAS# 108-10-1)

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 Yes
Hazard:
Chronic (Delayed) Health Yes
Hazard:

EPCRA 313 Toxic Chemical Release Inventory (TRI) Reporting

The following chemical(s) in this material are subject to reporting levels established by SARA Title III, Section 313:

Isopropyl Alcohol (CAS# 67-63-0)
Methyl Alcohol (CAS# 67-56-1)
Methyl Isobutyl Ketone (CAS# 108-10-1)

US State Regulations**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)**

This product contains a chemical known to the State of California to cause birth defects or 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.

Hazardous Materials Identification System (HMIS®) Classification

Health Hazard: 4
Chronic Health Hazard: *
Flammability: 3
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: 4
Fire Hazard: 3
Reactivity Hazard: 0
Special: N/A

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

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Current Revision: 02

Sections Revised: 2, 4-6, 8-10, 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
l - Liter
lb - Pound
LC50 - Lethal Concentration, 50%

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

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

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

References

HSDB® - Hazardous Substances Data Bank

Disclaimer

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