

SAFETY DATA SHEET

1. Identification

Product number
Product identifier AVERT ANTI SEIZE COMPOUND
Supplier information Evcor Solutions Inc.
Toronto, Ont. M5V 1T5
Company phone 1-800-860-1537
Emergency telephone Canutec
(613) 996-6666

Recommended use LUBRICANT
Recommended restrictions None known.

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1
Health hazards Serious eye damage/eye irritation Category 2A
Aspiration hazard Category 1
Environmental hazards Hazardous to the aquatic environment, acute hazard Category 2
Hazardous to the aquatic environment, long-term hazard Category 2
OSHA defined hazards Not classified.

Label elements



Signal word Danger
Hazard statement Extremely flammable aerosol. May be fatal if swallowed and enters airways. Causes serious eye irritation.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash thoroughly after handling. Wear eye/face protection.
Response If swallowed: Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Do NOT induce vomiting. If eye irritation persists: Get medical advice/attention.
Storage Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information Not applicable.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---------------|--------------------------|------------|---------|
| Acetone | | 67-64-1 | 10 - 20 |

| Chemical name | Common name and synonyms | CAS number | % |
|---|--------------------------|------------|----------|
| Butane | | 106-97-8 | 10 - 20 |
| Copper | | 7440-50-8 | 10 - 20 |
| Naphtha (petroleum), Light Alkylate | | 64741-66-8 | 10 - 20 |
| Propane | | 74-98-6 | 10 - 20 |
| Distillates (Petroleum), Hydrotreated Light | | 64742-47-8 | 2.5 - 10 |
| Triethanolamine | | 102-71-6 | 2.5 - 10 |
| Aluminum | | 7429-90-5 | 0.1 - 1 |
| Other components below reportable levels | | | 10 - 20 |

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Composition comments For the full text of the R phrases mentioned in this Section, see Section 16.

4. First-aid measures

| | |
|---|---|
| Inhalation | If symptoms develop move victim to fresh air. Do not use mouth-to-mouth method if victim inhaled the substance. Call a physician or Poison Control Center immediately. Get medical attention if symptoms persist. |
| Skin contact | Immediately take off all contaminated clothing. Get medical attention if irritation develops or persists. For minor skin contact, avoid spreading material on unaffected skin. |
| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists. If eye irritation persists: Get medical advice/attention. |
| Ingestion | Have victim rinse mouth thoroughly with water. Call a physician or poison control center immediately. Get medical attention immediately. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may cause pulmonary edema and pneumonitis. If ingestion of a large amount does occur, seek medical attention. |
| Most important symptoms/effects, acute and delayed | Irritation of eyes and mucous membranes. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Immediate medical attention is required. |

5. Fire-fighting measures

| | |
|--|---|
| Suitable extinguishing media | Powder. Alcohol resistant foam. Water. Dry sand. Carbon dioxide (CO2). |
| Unsuitable extinguishing media | Do not use a solid water stream as it may scatter and spread fire. |
| Specific hazards arising from the chemical | Contents under pressure. Pressurized container may explode when exposed to heat or flame. |
| Special protective equipment and precautions for firefighters | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. |
| Fire-fighting equipment/instructions | In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Cool containers with flooding quantities of water until well after fire is out. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes. |
| General fire hazards | Extremely flammable aerosol. |

Product name: AVERT ANTI SEIZE COMPOUND

Product #: Issue date: January 1, 2015

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stay upwind. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent entry into waterways, sewers, basements or confined areas. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Collect spillage. Clean contaminated surface thoroughly. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. This material and its container must be disposed of as hazardous waste. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Will ignite if exposed to intensive heat or open air. Vapors may form explosive mixtures with air. Do not handle or store near an open flame, heat or other sources of ignition. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Use only with adequate ventilation. Do not breathe gas/fumes/vapor/spray. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure. Wear self-contained breathing apparatus and protective suit. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Level 2 Aerosol.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value | Form |
|--------------------------|------|------------------------|---------------------------------|
| Acetone (CAS 67-64-1) | PEL | 2400 mg/m3 1000 ppm | |
| Aluminum (CAS 7429-90-5) | PEL | 5 mg/m3 15 mg/m3 | Respirable dust. Total dust. |
| Copper (CAS 7440-50-8) | PEL | 1 mg/m3 1.1 mg/m3 | Dust and mist. Fume. |
| Propane (CAS 74-98-6) | PEL | 1800 mg/m3 1000 ppm | |

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|--------------------------------|-------------|----------------------|-------------------------|
| Acetone (CAS 67-64-1) | STEL TWA | 750 ppm 500 ppm | |
| Aluminum (CAS 7429-90-5) | TWA | 1 mg/m3 | Respirable fraction. |
| Butane (CAS 106-97-8) | STEL | 1000 ppm | |
| Copper (CAS 7440-50-8) | TWA | 1 mg/m3 1.2 mg/m3 | Dust and mist. Fume. |
| Triethanolamine (CAS 102-71-6) | TWA | 5 mg/m3 | |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value | Form |
|--------------------------|------|------------------------|---|
| Acetone (CAS 67-64-1) | TWA | 590 mg/m3 250 ppm | |
| Aluminum (CAS 7429-90-5) | TWA | 5 mg/m3 5 mg/m3 | Respirable. Welding fume or pyrophoric powder. Total |
| Butane (CAS 106-97-8) | TWA | 10 mg/m3 1900 mg/m3 | |
| Copper (CAS 7440-50-8) | TWA | 800 ppm 1 mg/m3 | Dust and mist. |
| Propane (CAS 74-98-6) | TWA | 1800 mg/m3 1000 ppm | |

Biological limit values**ACGIH Biological Exposure Indices**

| Components | Value | Determinant | Specimen | Sampling Time |
|-----------------------|---------|-------------|----------|---------------|
| Acetone (CAS 67-64-1) | 50 mg/l | Acetone | Urine | * |

* - For sampling details, please see the source document.

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. Provide eyewash station.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear eye/face protection. Wear chemical goggles.

Hand protection

Wear protective gloves.

Skin protection**Other**

Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.

Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Avoid contact with eyes. Avoid contact with skin. 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.

9. Physical and chemical properties**Appearance**

Compressed liquefied gas.

Physical state

Gas.

Form

Aerosol.

Color

purple

Odor

Characteristic.

Odor threshold

Not available.

pH

6 - 7 estimated

Melting point/freezing point

Not available.

Initial boiling point and boiling range

Not available.

Flash point

-156.0 °F (-104.4 °C) Propellant estimated

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits**Explosive limit - lower (%)**

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

65 - 75 psig @ 70F estimated

Vapor density

Not available.

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| | |
|--------------------------------------|--------------------------------|
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Heat of combustion | 25.53 kJ/g estimated estimated |
| Heat of combustion (NFPA 30B) | 25.53 kJ/g estimated |
| Specific gravity | 0.955 estimated |

10. Stability and reactivity

| | |
|---|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Risk of ignition. Stable at normal conditions. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |
| Conditions to avoid | Exposure to air. Heat, flames and sparks. Avoid temperatures exceeding the flash point. |
| Incompatible materials | Strong oxidizing agents. Peroxides. Oxygen. Fluorine. Chlorine. Phenols. Nitrates. |
| Hazardous decomposition products | May include oxides of nitrogen. May include oxides of phosphorus. |

11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|---|
| Ingestion | May be fatal if swallowed and enters airways. |
| Inhalation | May be fatal if swallowed and enters airways. Prolonged inhalation may be harmful. |
| Skin contact | Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans. |
| Eye contact | Causes serious eye irritation. |

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Acute LC50: 2134 mg/l/4h, Rat, Inhalation
May be fatal if swallowed and enters airways.

| Product | Species | Test Results |
|--|------------|--|
| TERAND ANTI-SEIZE COMPOUND (CAS Mixture) | | |
| Acute | | |
| <i>Inhalation</i> | | |
| LC50 | Rat | 2134 mg/l/4h |
| Components | | |
| Species | | |
| Test Results | | |
| Acetone (CAS 67-64-1) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Guinea pig | > 7426 mg/kg, 24 Hours > 9.4 ml/kg, 24 Hours |
| | Rabbit | > 7426 mg/kg, 24 Hours > 9.4 ml/kg, 24 Hours |
| <i>Inhalation</i> | | |
| LC50 | Rat | 55700 ppm, 3 Hours 132 mg/l, 3 Hours 50.1 mg/l |

| Components | Species | Test Results |
|--|---------|--|
| <i>Oral</i> LD50 | Rat | 5800 mg/kg 2.2 ml/kg |
| Aluminum (CAS 7429-90-5) | | |
| Acute | | |
| <i>Inhalation</i> LC50 | Rat | > 0.888 mg/l, 4 Hours 7.6 mg/l, If <1L: Consumer Commodity Hours |
| <i>Oral</i> LD50 | Rat | > 15900 mg/kg |
| Butane (CAS 106-97-8) | | |
| Acute | | |
| <i>Inhalation</i> LC50 | Mouse | 1237 mg/l, 120 Minutes 52 %, 120 Minutes |
| | Rat | 1355 mg/l |
| Copper (CAS 7440-50-8) | | |
| Acute | | |
| <i>Dermal</i> LD50 | Rat | > 2000 mg/kg, 24 Hours |
| <i>Oral</i> LD50 | Rat | 300 - 500 mg/kg |
| Distillates (Petroleum), Hydrotreated Light (CAS 64742-47-8) | | |
| Acute | | |
| <i>Dermal</i> LD50 | Rabbit | > 2000 mg/kg > 2000 mg/kg, 24 Hours |
| <i>Inhalation</i> LC50 | Rat | > 7.5 mg/l, 6 Hours > 4.6 mg/l, 4 Hours |
| <i>Oral</i> LD50 | Rat | > 5000 mg/kg |
| Naphtha (petroleum), Light Alkylate (CAS 64741-66-8) | | |
| Acute | | |
| <i>Dermal</i> LD50 | Rabbit | > 1900 mg/kg, 24 Hours |
| <i>Inhalation</i> LC50 | Rat | > 5020 mg/m3, 4 Hours > 4980 mg/m3 > 4980 mg/m3, 4 Hours > 4.96 mg/l, 4 Hours |
| <i>Oral</i> LD50 | Rat | 4820 mg/kg |
| Propane (CAS 74-98-6) | | |
| Acute | | |
| <i>Inhalation</i> LC50 | Mouse | 1237 mg/l, 120 Minutes 52 %, 120 Minutes |
| | Rat | 1355 mg/l |

| Components | Species | Test Results |
|--------------------------------|---------|--------------|
| Triethanolamine (CAS 102-71-6) | | 658 mg/l/4h |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | > 2000 mg/kg |
| <i>Oral</i> | | |
| LD50 | Rat | 6400 mg/kg |

* Estimates for product may be based on additional component data not shown.

| | |
|--|--|
| Skin corrosion/irritation | Not expected to be hazardous by OSHA criteria. Not applicable. |
| Serious eye damage/eye irritation | Causes serious eye irritation. |
| Respiratory or skin sensitization | |
| Respiratory sensitization | Not available. |
| Skin sensitization | This product is not expected to cause skin sensitization. |
| Germ cell mutagenicity | Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by WHMIS criteria. |
| Carcinogenicity | Risk of cancer cannot be excluded with prolonged exposure. Not expected to be hazardous by WHMIS criteria. |

IARC Monographs. Overall Evaluation of Carcinogenicity

Triethanolamine (CAS 102-71-6) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

| | |
|---|---|
| Reproductive toxicity | Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by WHMIS criteria. |
| Specific target organ toxicity - single exposure | Not classified. |
| Specific target organ toxicity - repeated exposure | Not classified. |
| Aspiration hazard | May be fatal if swallowed and enters airways. |
| Chronic effects | Prolonged inhalation may be harmful. May be harmful if absorbed through skin. Prolonged exposure may cause chronic effects. |
| | Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans. |
| | Not expected to be hazardous by WHMIS criteria. |
| Further information | This product has no known adverse effect on human health. |

12. Ecological information

| | |
|--------------------|---|
| Ecotoxicity | IC50: 35087 mg/L, Algae, 72.00 Hours Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected. |
|--------------------|---|

| Product | Species | Test Results |
|--|----------------|--|
| TERAND ANTI-SEIZE COMPOUND (CAS Mixture) | | |
| Aquatic | | |
| Algae | IC50 | Algae 35087 mg/L, 72 Hours |
| Components | Species | Test Results |
| Acetone (CAS 67-64-1) | | |
| Aquatic | | |
| Crustacea | EC50 | Water flea (Daphnia magna) 21.6 - 23.9 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) 4740 - 6330 mg/l, 96 hours |
| Aluminum (CAS 7429-90-5) | | |
| Aquatic | | |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) 0.16 mg/l, 96 hours |

| Components | Species | | Test Results |
|--|---------|---|--------------------------------|
| Copper (CAS 7440-50-8) | | | |
| Aquatic | | | |
| Algae | IC50 | Algae | 0 mg/L, 72 Hours |
| Crustacea | EC50 | Daphnia | 0.03 mg/L, 48 Hours |
| | | Water flea (Daphnia magna) | 0.036 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 0.0319 - 0.0544 mg/l, 96 hours |
| Distillates (Petroleum), Hydrotreated Light (CAS 64742-47-8) | | | |
| Aquatic | | | |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 2.9 mg/l, 96 hours |
| Triethanolamine (CAS 102-71-6) | | | |
| Aquatic | | | |
| Algae | IC50 | Algae | 216 mg/L, 72 Hours |
| Crustacea | EC50 | Water flea (Ceriodaphnia dubia) | 565.2 - 658.3 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 10610 - 13010 mg/l, 96 hours |

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

| | |
|-----------------|-------|
| Acetone | -0.24 |
| Butane | 2.89 |
| Propane | 2.36 |
| Triethanolamine | -1 |

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Consult authorities before disposal. Contents under pressure. Dispose of this material and its container at hazardous or special waste collection point. Do not puncture, incinerate or crush. 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.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

US RCRA Hazardous Waste U List: Reference

Acetone (CAS 67-64-1) U002

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 (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

14. Transport information

DOT

| | |
|-----------------------------------|---------------------|
| UN number | UN1950 |
| UN proper shipping name | Aerosols, flammable |
| Transport hazard class(es) | |
| Class | 2.1 |
| Subsidiary risk | - |
| Label(s) | 2.1 |
| Packing group | Not applicable. |

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

Special provisions N82

Packaging exceptions 306

Packaging non bulk None

Packaging bulk None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

UN number UN1950

UN proper shipping name Aerosols, flammable

Transport hazard class(es)

Class 2.1

Subsidiary risk -

Label(s) 2.1

Packing group Not applicable.

Environmental hazards Yes

ERG Code 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo aircraft Allowed.

Cargo aircraft only Allowed.

Packaging Exceptions LTD QTY

IMDG

UN number UN1950

UN proper shipping name AEROSOLS

Transport hazard class(es)

Class 2.1

Subsidiary risk -

Label(s) 2.1

Packing group Not applicable.

Environmental hazards

Marine pollutant Yes

EmS F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

Packaging Exceptions LTD QTY

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

DOT



IATA; IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1)

Listed.

Copper (CAS 7440-50-8)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |
|---------------|------------|----------|
| Copper | 7440-50-8 | 10 - 20 |
| Aluminum | 7429-90-5 | 0.1 - 1 |

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA) Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1) 6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1) 6532

US state regulations

US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)
Aluminum (CAS 7429-90-5)
Butane (CAS 106-97-8)
Copper (CAS 7440-50-8)
Propane (CAS 74-98-6)
Triethanolamine (CAS 102-71-6)

US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1)
Aluminum (CAS 7429-90-5)
Butane (CAS 106-97-8)
Copper (CAS 7440-50-8)
Propane (CAS 74-98-6)
Triethanolamine (CAS 102-71-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)
Aluminum (CAS 7429-90-5)
Butane (CAS 106-97-8)
Copper (CAS 7440-50-8)
Propane (CAS 74-98-6)
Triethanolamine (CAS 102-71-6)

US. Rhode Island RTK

Acetone (CAS 67-64-1)
Aluminum (CAS 7429-90-5)
Butane (CAS 106-97-8)
Copper (CAS 7440-50-8)
Propane (CAS 74-98-6)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Diethanolamine (CAS 111-42-2) Listed: June 22, 2012

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|-------------------------------|
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date January 1, 2015

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Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.