

Safety Data Sheet

RAMUC®

KOP-COAT

Revision Date 02-Jan-2014
Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Ramuc Type EP - 328 Dawn Blue - Part A
Product code 908132800
Recommended Use Paint

Supplier Kop-Coat, Inc.
RAMUC
36 Pine Street
Rockaway, NJ 07866

Emergency telephone number Chemtrec: 1-800-424-9300 for US
+1 703-527-3887 outside US

2. Hazards identification

Emergency Overview

Flammable liquid and vapor
Vapor harmful
May cause skin, eye, and respiratory tract irritation
Harmful or fatal if swallowed
May cause central nervous system depression
May cause adverse kidney effects

Potential Health Effects

Acute toxicity

Eyes

Product may cause eye irritation; signs and symptoms may include a burning sensation, redness, tearing, inflammation, blurred vision, and/or possible transient corneal injury.

Skin

May cause skin irritation and/or dermatitis. Repeated exposure may cause skin dryness or cracking. May be harmful if absorbed through skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Inhalation

May cause irritation of respiratory tract. Inhalation of vapors in high concentration may cause irritation of respiratory system. High concentrations can cause unconsciousness and death. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. May be harmful if inhaled.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. If ingested, product may cause irritation of mouth, throat, stomach, and digestive and central nervous systems; signs and symptoms may include headache, drowsiness, dizziness, swelling, abdominal discomfort, and/or burning sensation.

Chronic Effects

Repeated and prolonged exposure to solvents may cause brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. May cause adverse liver effects.

Aggravated Medical Conditions

Central nervous system. Preexisting eye disorders. Blood disorders. Kidney disorders. Liver disorders. Skin disorders. Respiratory disorders. Lungs.

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

Environmental hazard See Section 12 for additional Ecological Information.

3. Composition/information on ingredients

Hazardous Components

| Chemical Name | CAS-No | Weight % |
|--|------------|----------|
| Polymer of epoxy resin and bisphenol A | 25036-25-3 | 30-60 |
| Titanium dioxide | 13463-67-7 | 10-30 |
| BARIUM SULFATE | 7727-43-7 | 10-30 |
| METHYL ISOBUTYL KETONE | 108-10-1 | 1-10 |
| Xylene | 1330-20-7 | 1-10 |
| n-Butanol | 71-36-3 | 1-10 |
| ISOPROPYL ALCOHOL | 67-63-0 | 1-10 |
| Butyl glycidyl ether | 2426-08-6 | 1-10 |
| Ethylbenzene | 100-41-4 | 1-10 |
| AMORPHOUS SILICA | 7631-86-9 | 1-10 |

4. First aid measures

General advice Show this material safety data sheet to the doctor in attendance. When symptoms persist or in all cases of doubt seek medical advice.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician or poison control center immediately.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Call a poison control center or doctor for treatment advice. Remove and wash contaminated clothing before re-use.

Inhalation Move victim to fresh air. Apply artificial respiration if victim is not breathing. Call a physician or poison control center immediately.

Ingestion Call a physician or poison control center immediately. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person.

Notes to physician There is no specific antidote for effects from overexposure to this material. Treat symptomatically.

5. Fire-fighting measures

Flammable Properties Flammable.

Flash point 61 °F / 16 °C

Suitable extinguishing media Use CO2, dry chemical, or foam. Water may be unsuitable for extinguishing fires. Water may be used to cool and prevent the rupture of containers that are exposed to the heat from a fire.

Unsuitable Extinguishing Media High volume water jet.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

Evacuate personnel to safe areas. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazards while extinguishing the fire. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thoroughly decontaminate all protective equipment after use. Use water spray to cool fire-exposed containers. DO NOT extinguish a fire resulting from the flow of flammable liquid until the flow of the liquid is effectively shut off. This precaution will help prevent the accumulation of an explosive vapor-air mixture after the initial fire is extinguished.

6. Accidental release measures

Personal precautions

Stop leak if you can do it without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation. Take precautionary measures against static discharges. Avoid contact with skin, eyes and inhalation of vapors. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods for Containment

Dike to collect large liquid spills. Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Prevent material from entering surface waters, drains or sewers, and soil. Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

Methods for cleaning up

Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use clean non-sparking tools to collect absorbed material. Keep in suitable and closed containers for disposal.

7. Handling and storage

Advice on safe handling

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Keep away from open flames, hot surfaces and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only in well-ventilated areas. Do not eat, drink or smoke when using this product. Empty containers may retain product residue or vapor.

Technical measures/Storage conditions

Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place.

8. Exposure controls/personal protection

Exposure Guidelines

RCP-TWA = 1200 mg/m³ or 196 ppm Total Hydrocarbons in Vapor Form.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH | Mexico |
|--------------------------------|---------------------------|---|---|---|
| Titanium dioxide 13463-67-7 | TWA: 10 mg/m ³ | TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust | IDLH: 5000 mg/m ³ | TWA: 10 mg/m ³ STEL: 20 mg/m ³ |
| BARIUM SULFATE 7727-43-7 | TWA: 10 mg/m ³ | TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction | TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust | |

Ramuc Type EP - 328 Dawn Blue - Part A

| | | | | |
|---|---|---|---|---|
| METHYL ISOBUTYL KETONE 108-10-1 | STEL: 75 ppm TWA: 20 ppm | TWA: 100 ppm TWA: 410 mg/m ³ (vacated) TWA: 50 ppm (vacated) TWA: 205 mg/m ³ (vacated) STEL: 75 ppm (vacated) STEL: 307 mg/m ³ | IDLH: 500 ppm TWA: 50 ppm TWA: 205 mg/m ³ STEL: 75 ppm STEL: 307 mg/m ³ | TWA: 50 ppm TWA: 205 mg/m ³ STEL: 75 ppm STEL: 307 mg/m ³ |
| Xylene 1330-20-7 | STEL: 150 ppm TWA: 100 ppm | TWA: 100 ppm TWA: 435 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m ³ | | TWA: 100 ppm TWA: 435 mg/m ³ STEL: 150 ppm STEL: 655 mg/m ³ |
| n-Butanol 71-36-3 | TWA: 20 ppm | TWA: 100 ppm TWA: 300 mg/m ³ (vacated) S* (vacated) Ceiling: 50 ppm (vacated) Ceiling: 150 mg/m ³ | IDLH: 1400 ppm Ceiling: 50 ppm Ceiling: 150 mg/m ³ | Ceiling: 50 ppm Ceiling: 150 mg/m ³ |
| ISOPROPYL ALCOHOL 67-63-0 | STEL: 400 ppm TWA: 200 ppm | TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³ | IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³ | TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³ |
| Butyl glycidyl ether 2426-08-6 | TWA: 3 ppm S* | TWA: 50 ppm TWA: 270 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 135 mg/m ³ | IDLH: 250 ppm Ceiling: 5.6 ppm 15 min Ceiling: 30 mg/m ³ 15 min | TWA: 25 ppm TWA: 135 mg/m ³ |
| Ethylbenzene 100-41-4 | TWA: 20 ppm | TWA: 100 ppm TWA: 435 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³ (vacated) STEL: 125 ppm (vacated) STEL: 545 mg/m ³ | IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m ³ STEL: 125 ppm STEL: 545 mg/m ³ | TWA: 100 ppm TWA: 435 mg/m ³ STEL: 125 ppm STEL: 545 mg/m ³ |
| AMORPHOUS SILICA 7631-86-9 | | (vacated) TWA: 6 mg/m ³ <1% Crystalline silica TWA: 20 mppcf : (80)/(% SiO ₂) mg/m ³ TWA | IDLH: 3000 mg/m ³ TWA: 6 mg/m ³ | |
| Aluminium Hydroxide 21645-51-2 | TWA: 1 mg/m ³ respirable fraction | | | |
| Component | British Columbia | Alberta | Quebec | Ontario TWA/EV |
| Titanium dioxide 13463-67-7 (10-30) | TWA: 10 mg/m ³ TWA: 3 mg/m ³ | TWA: 10 mg/m ³ | TWA: 10 mg/m ³ | TWA: 10 mg/m ³ |
| BARIUM SULFATE 7727-43-7 (10-30) | TWA: 10 mg/m ³ TWA: 3 mg/m ³ | TWA: 10 mg/m ³ | TWA: 10 ppm TWA: 5 ppm | TWA: 10 mg/m ³ |
| METHYL ISOBUTYL KETONE 108-10-1 (1-10) | TWA: 20 ppm STEL: 75 ppm | TWA: 50 ppm TWA: 205 mg/m ³ STEL: 75 ppm STEL: 307 mg/m ³ | TWA: 50 ppm TWA: 205 mg/m ³ STEL: 75 ppm STEL: 307 mg/m ³ | TWA: 50 ppm STEL: 75 ppm |
| Xylene 1330-20-7 (1-10) | TWA: 100 ppm STEL: 150 ppm | TWA: 100 ppm TWA: 434 mg/m ³ STEL: 150 ppm STEL: 651 mg/m ³ | TWA: 100 ppm TWA: 434 mg/m ³ STEL: 150 ppm STEL: 651 mg/m ³ | TWA: 100 ppm STEL: 150 ppm |
| n-Butanol 71-36-3 (1-10) | TWA: 15 ppm Ceiling: 30 ppm | TWA: 20 ppm TWA: 60 mg/m ³ | Ceiling: 50 ppm Ceiling: 152 mg/m ³ Skin | TWA: 20 ppm |
| ISOPROPYL ALCOHOL 67-63-0 (1-10) | TWA: 200 ppm STEL: 400 ppm | TWA: 200 ppm TWA: 492 mg/m ³ STEL: 400 ppm STEL: 984 mg/m ³ | TWA: 400 ppm TWA: 985 mg/m ³ STEL: 500 ppm STEL: 1230 mg/m ³ | TWA: 200 ppm STEL: 400 ppm |
| Butyl glycidyl ether 2426-08-6 (1-10) | TWA: 3 ppm Skin Adverse reproductive effect Sensitizer | TWA: 3 ppm TWA: 16 mg/m ³ Skin | TWA: 25 ppm TWA: 133 mg/m ³ | TWA: 3 ppm Skin |
| Ethylbenzene 100-41-4 (1-10) | TWA: 20 ppm | TWA: 100 ppm TWA: 434 mg/m ³ STEL: 125 ppm STEL: 543 mg/m ³ | TWA: 100 ppm TWA: 434 mg/m ³ STEL: 125 ppm STEL: 543 mg/m ³ | TWA: 100 ppm STEL: 125 ppm |

NIOSH IDLH: Immediately Dangerous to Life or Health

| | |
|---|---|
| Other Exposure Guidelines | Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992). |
| Engineering Measures | Ensure adequate ventilation, especially in confined areas. Use adequate ventilation to maintain airborne concentrations at levels below permissible or recommended occupational exposure limits. |
| <u>Personal Protective Equipment</u> | |
| Hand Protection | Solvent-resistant gloves |
| Eye/Face Protection | Wear chemical-resistant glasses and/or goggles and a face shield when eye and face contact is possible due to handling and processing of material. |
| Skin and body protection | Wear protective gloves and additional protective clothing as necessary to prevent exposures. Wash hands thoroughly after handling. Wear chemical resistant footwear and clothing such as gloves, an apron or a whole body suit as appropriate. Care must be taken to wash down suit, gloves and boots before removal. |
| Respiratory protection | A NIOSH-approved air-purifying respirator with the appropriate cartridge may be appropriate under certain circumstances where airborne concentrations are expected to exceed permissible exposure limits. |
| Hygiene measures | When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use. |

9. Physical and chemical properties

| | |
|-----------------------|------------------|
| Physical state | Liquid |
| Appearance | Colored liquid |
| Odor | Hydrocarbon-like |
| Color | Blue |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Methods</u> |
|---|-------------------|--------------------------|
| pH | Not applicable | |
| Boiling point/boiling range | 114 °C / 237 °F | |
| Flash Point | 16 °C / 61 °F | |
| Evaporation rate | < 1 | |
| Explosion Limits | | |
| upper | | |
| lower | | |
| Vapor pressure | no data available | |
| Vapor density | no data available | |
| Specific Gravity | 1.42 | |
| Viscosity, kinematic | no data available | |
| Water solubility | no data available | |
| Partition coefficient: n-octanol/water | no data available | |
| Explosive properties | no data available | |

| | |
|---|-------------------|
| <u>Other information</u> | |
| Volatile organic compounds (VOC) content | 335 g/L |
| Melting/freezing point | no data available |

10. Stability and reactivity

| | |
|------------------------------|--|
| Stability/Reactivity | Stable under recommended storage conditions. |
| Incompatible products | Oxidizing or reducing agents. Keep away from heat and sources of ignition. |

Conditions to Avoid Direct sources of heat.

Hazardous Decomposition Products Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

Hazardous Polymerization Hazardous polymerization does not occur.

11. Toxicological information

Acute toxicity

Product Information The product itself has not been tested.

Component Information

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|------------------------|---------------------|--|---|
| Titanium dioxide | 10000 mg/kg (Rat) | | |
| METHYL ISOBUTYL KETONE | 2080 mg/kg (Rat) | 16000 mg/kg (Rabbit) | 8.2 mg/L (Rat) 4 h |
| Xylene | 4300 mg/kg (Rat) | 1700 mg/kg (Rabbit) | 5000 ppm (Rat) 4 h 47635 mg/L (Rat) 4 h |
| n-Butanol | | | 8000 ppm (Rat) 4 h |
| ISOPROPYL ALCOHOL | 4396 mg/kg (Rat) | 12800 mg/kg (Rat) 12870 mg/kg (Rabbit) | 72.6 mg/L (Rat) 4 h |
| Butyl glycidyl ether | 1660 mg/kg (Rat) | 2150 mg/kg (Rat) 2520 µL/kg (Rabbit) | |
| Ethylbenzene | 3500 mg/kg (Rat) | 15354 mg/kg (Rabbit) | 17.2 mg/L (Rat) 4 h |
| AMORPHOUS SILICA | 5000 mg/kg (Rat) | 2000 mg/kg (Rabbit) | 2.2 mg/L (Rat) 1 h |

Chronic toxicity

Chronic toxicity Repeated and prolonged exposure to solvents may cause brain and nervous system damage
 Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal
 Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons
 May cause adverse liver effects

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name | ACGIH | IARC | NTP | OSHA | Mexico |
|------------------------|-------|--------------------|-----|------|--------|
| Titanium dioxide | | Group 2B | | X | |
| METHYL ISOBUTYL KETONE | A3 | Group 2B | | X | |
| Xylene | | Group 3 | | | |
| ISOPROPYL ALCOHOL | | Group 1 Group 3 | | X | |
| Ethylbenzene | A3 | Group 2B | | X | |
| AMORPHOUS SILICA | | Group 3 | | | |

ACGIH: (American Conference of Governmental Industrial Hygienists)
 A3 - Animal Carcinogen
 IARC: (International Agency for Research on Cancer)
 Group 1 - Carcinogenic to Humans
 Group 2B - Possibly Carcinogenic to Humans
 Group 3 - Not Classifiable as to Carcinogenicity in Humans
 OSHA: (Occupational Safety & Health Administration)
 X - Present

Target Organ Effects Blood Central nervous system Eyes Kidney Liver Lungs Respiratory system Skin

12. Ecological information

Ecotoxicity

Harmful to aquatic organisms. .

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates | Toxicity to microorganisms | Toxicity to other organisms |
|------------------------|--|--|--|----------------------------|-----------------------------|
| METHYL ISOBUTYL KETONE | EC50: 96 h Pseudokirchneriella subcapitata 400 mg/L | LC50: 96 h Pimephales promelas 496 - 514 mg/L flow-through | EC50: 48 h Daphnia magna 170 mg/L | | |
| Xylene | | LC50: 96 h Pimephales promelas 13.4 mg/L flow-through LC50: 96 h Oncorhynchus mykiss 2.661 - 4.093 mg/L static LC50: 96 h Oncorhynchus mykiss 13.5 - 17.3 mg/L LC50: 96 h Lepomis macrochirus 13.1 - 16.5 mg/L flow-through LC50: 96 h Lepomis macrochirus 19 mg/L LC50: 96 h Lepomis macrochirus 7.711 - 9.591 mg/L static LC50: 96 h Pimephales promelas 23.53 - 29.97 mg/L static LC50: 96 h Cyprinus carpio 780 mg/L semi-static LC50: 96 h Cyprinus carpio 780 mg/L LC50: 96 h Poecilia reticulata 30.26 - 40.75 mg/L static | EC50: 48 h water flea 3.82 mg/L LC50: 48 h Gammarus lacustris 0.6 mg/L | | |
| n-Butanol | EC50: 96 h Desmodesmus subspicatus 500 mg/L EC50: 72 h Desmodesmus subspicatus 500 mg/L | LC50: 96 h Pimephales promelas 1730 - 1910 mg/L static LC50: 96 h Pimephales promelas 1740 mg/L flow-through LC50: 96 h Lepomis macrochirus 100000 - 500000 µg/L static LC50: 96 h Pimephales promelas 1910000 µg/L static | EC50: 48 h Daphnia magna 1983 mg/L EC50: 48 h Daphnia magna 1897 - 2072 mg/L Static | | |
| ISOPROPYL ALCOHOL | EC50: 96 h Desmodesmus subspicatus 1000 mg/L EC50: 72 h Desmodesmus subspicatus 1000 mg/L | LC50: 96 h Pimephales promelas 9640 mg/L flow-through LC50: 96 h Pimephales promelas 11130 mg/L static LC50: 96 h Lepomis macrochirus 1400000 µg/L | EC50: 48 h Daphnia magna 13299 mg/L | | |

| | | | | | |
|------------------|---|---|--|--|--|
| Ethylbenzene | EC50: 72 h Pseudokirchneriella subcapitata 4.6 mg/L EC50: 96 h Pseudokirchneriella subcapitata 438 mg/L EC50: 72 h Pseudokirchneriella subcapitata 2.6 - 11.3 mg/L static EC50: 96 h Pseudokirchneriella subcapitata 1.7 - 7.6 mg/L static | LC50: 96 h Oncorhynchus mykiss 11.0 - 18.0 mg/L static LC50: 96 h Oncorhynchus mykiss 4.2 mg/L semi-static LC50: 96 h Pimephales promelas 7.55 - 11 mg/L flow-through LC50: 96 h Lepomis macrochirus 32 mg/L static LC50: 96 h Pimephales promelas 9.1 - 15.6 mg/L static LC50: 96 h Poecilia reticulata 9.6 mg/L static | EC50: 48 h Daphnia magna 1.8 - 2.4 mg/L | | |
| AMORPHOUS SILICA | EC50: 72 h Pseudokirchneriella subcapitata 440 mg/L | LC50: 96 h Brachydanio rerio 5000 mg/L static | EC50: 48 h Ceriodaphnia dubia 7600 mg/L | | |

Persistence and degradability Not readily biodegradable.

Bioaccumulation .

Mobility No information available.

| Chemical Name | log Pow |
|------------------------|-------------|
| METHYL ISOBUTYL KETONE | 1.19 |
| Xylene | 2.77 - 3.15 |
| n-Butanol | 0.785 |
| ISOPROPYL ALCOHOL | 0.05 |
| Ethylbenzene | 3.118 |

13. Disposal considerations

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum.

US EPA Waste Number D001

California Hazardous Waste Codes 461

14. Transport information

Note ORM-D

DOT

Proper shipping name Paint
Hazard class 3
UN/ID No UN1263
Packing Group II

MEX

Proper shipping name Paint

Hazard class 3
UN/ID No UN1263
Packing Group II

IATA

UN Number UN1263
Proper shipping name PAINT
Hazard class 3

IMDG

Proper shipping name PAINT
Hazard class 3
UN Number UN1263
Packing Group II

ADR

Proper shipping name PAINT
UN Number UN1263
Packing Group II

15. Regulatory information

International Inventories

TSCA Complies
DSL -
EINECS/ELINCS -
ENCS -
IECSC -
KECL -
PICCS -
AICS -
NZIoC -

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
 "-" - Unknown. Not listed.

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | Weight % | SARA 313 - Threshold Values % |
|------------------------|----------|-------------------------------|
| BARIUM SULFATE | 10-30 | 1.0 |
| METHYL ISOBUTYL KETONE | 1-10 | 1.0 |
| Xylene | 1-10 | 1.0 |
| n-Butanol | 1-10 | 1.0 |
| ISOPROPYL ALCOHOL | 1-10 | 1.0 |
| Ethylbenzene | 1-10 | 0.1 |

SARA 311/312 Hazard Categories

Acute Health Hazard Yes

| | |
|--|-----|
| Chronic Health Hazard | No |
| Fire Hazard | Yes |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|----------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Xylene | 100 lb | | | X |
| Ethylbenzene | 1000 lb | X | X | X |
| C.I. Pigment Green 7 | | X | | |
| P-XYLENE | | | | X |
| TOLUENE | 1000 lb | X | X | X |
| Benzene | 10 lb | X | X | X |

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|------------------------|--------------------------|------------------------------------|--|
| METHYL ISOBUTYL KETONE | 5000 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ |
| Xylene | 100 lb | | RQ 100 lb final RQ RQ 45.4 kg final RQ |
| n-Butanol | 5000 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ |
| Ethylbenzene | 1000 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ |
| P-XYLENE | 100 lb | | RQ 100 lb final RQ RQ 45.4 kg final RQ |
| TOLUENE | 1000 lb 1 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ RQ 1 lb final RQ RQ 0.454 kg final RQ |
| ISOBUTYL ALCOHOL | 5000 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ |
| Benzene | 10 lb | | RQ 10 lb final RQ RQ 4.54 kg final RQ |

U.S. State Regulations

California Proposition 65

This product contains chemicals known to the State of California to cause cancer or reproductive toxicity

| Chemical Name | California Prop. 65 |
|---|--|
| Titanium dioxide | Carcinogen |
| METHYL ISOBUTYL KETONE | Carcinogen |
| Butyl glycidyl ether | Male Reproductive |
| Ethylbenzene | Carcinogen |
| CRYSTALLINE SILICA (QUARTZ)/ SILICA SAND | Carcinogen |
| Crystalline Silica (Quartz) (Respirable dust) | Carcinogen |
| TOLUENE | Developmental Female Reproductive |
| Benzene | Carcinogen Developmental Male Reproductive |

U.S. State Right-to-Know Regulations

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|---------------------------------------|---------------|------------|--------------|----------|--------------|
| Titanium dioxide | X | X | X | | |
| BARIUM SULFATE | X | X | X | | |
| METHYL ISOBUTYL KETONE | X | X | X | X | |
| Xylene | X | X | X | X | |
| n-Butanol | X | X | X | | |
| ISOPROPYL ALCOHOL | X | X | X | | |
| Butyl glycidyl ether | X | X | X | | |
| Ethylbenzene | X | X | X | X | |
| AMORPHOUS SILICA | X | X | X | | |
| ISOBUTYL ALCOHOL | X | X | X | | |
| PROPYLENE GLYCOL; PROPANE-1,2-DIOL | | X | X | | |
| 2,6-DIMETHYLHEPTAN-4-ONE | X | X | X | | |
| Benzene | X | X | X | X | |

International Regulations

Mexico - Grade Serious risk, Grade 3

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

B2 Flammable liquid
D2A Very toxic materials



16. Other information

| | | | | |
|-------------|-------------------------|-----------------------|-------------------------------|--|
| NFPA | Health Hazard 2 | Flammability 3 | Stability/Reactivity 0 | Physical and chemical hazards - |
| HMIS | Health Hazard 2* | Flammability 3 | Physical Hazard 0 | Personal protection - |

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Regulatory Affairs

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Disclaimer

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End of Material Safety Data Sheet