

SAFETY DATA SHEET

1. Identification

| Product identifier | Mixed P-P's (Propane/Propylene) |
|---------------------------------|--|
| Other means of identification | |
| SDS number | 308 |
| Synonyms | Blend Of Propane and Propylene, Refinery Grade Propylene |
| Recommended use | Organic synthesis. Household and industrial fuel. |
| Recommended restrictions | No other uses are advised. |
| Manufacturer/Importer/Supplier/ | Distributor information |
| Manufacturer/Supplier | Valero Marketing & Supply Company and Affiliates |
| | One Valero Way |
| | San Antonio, TX 78269-6000 |
| General Assistance | 210-345-4593 |
| E-Mail | CorpHSE@valero.com |
| Contact Person | Industrial Hygienist |
| Emergency Telephone | 24 Hour Emergency 866-565-5220 |
| | 1-800-424-9300 (CHEMTREC USA) |

2. Hazard(s) identification

| Physical hazards | Flammable gases | Category 1 |
|----------------------|----------------------|---------------|
| | Gases under pressure | Liquefied gas |
| Health hazards | Not classified. | |
| OSHA defined hazards | Simple asphyxiant | |
| Label elements | | |
| | $\wedge \wedge$ | |



| Signal word | Danger |
|--|---|
| Hazard statement | Extremely flammable gas. Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation. |
| Precautionary statement | |
| Prevention | Keep away from heat/sparks/open flames/hot surfaces No smoking. Use only with adequate ventilation. Do not enter storage areas or confined spaces unless adequately ventilated. |
| Response | Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so. |
| Storage | Keep container tightly closed. Protect from sunlight. Store in a well-ventilated place. |
| Disposal | Dispose of waste and residues in accordance with local authority requirements. |
| Hazard(s) not otherwise classified (HNOC) | Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ("cold burn"). |
| Supplemental information | None. |

3. Composition/information on ingredients

Mixtures

| Chemical name | CAS number | % |
|---------------|------------|---------|
| Propylene | 115-07-1 | 50 - 80 |
| Propane | 74-98-6 | 20 - 40 |
| Ethane | 74-84-0 | 0 - 10 |

| Chemical name | CAS number | % |
|--|--|---|
| Ethylene | 74-85-1 | 0 - 10 |
| Isobutane | 75-28-5 | 0 - 1 |
| 4. First-aid measures | | |
| Inhalation | Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory tract irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation. Move to fresh air. Get medical attention immediately. | |
| Skin contact | If frostbite occurs, immerse affected area in warm water (not exceeding 105°F/41°C). Keep immersed for 20 to 40 minutes. Get medical attention immediately. | |
| Eye contact | If frostbite occurs, immediately flush eyes with plenty of warm water (not exceeding 105°F/41°C) for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately. | |
| ngestion | Not likely, due to the form of the product. | |
| Most important symptoms/effects, acute and delayed | Headache. Dizziness. Fatigue. Nausea, vomiting. Very high exposure can cause suffocation from lack of oxygen. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themself. | |
| 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 protect themselves. | take precautions to |
| 5. Fire-fighting measures | | |
| Suitable extinguishing media | Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (Co fire-extinguishing media appropriate for surrounding materials. | D2). Use |
| Unsuitable extinguishing media | None known. | |
| Specific hazards arising from the chemical | Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a sourc of ignition and flash back. During fire, gases hazardous to health may be formed. | |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be w | orn in case of fire. |
| Fire fighting equipment/instructions | In case of fire and/or explosion do not breathe fumes. Do not extinguish a leak can be stopped. In case of fire: Stop leak if safe to do so. Do not more cargo has been exposed to heat. If tank, rail car or tank truck is involved meters (1/2 mile) in all directions; also consider initial evacuation for 800 directions. ALWAYS stay away from tanks engulfed in flame. Move contar can do so without risk. Do not direct water at source of leak or safety dev Use water spray to cool unopened containers. Withdraw immediately in c venting safety device or any discoloration of tanks due to fire. For massiv unmanned hose holder or monitor nozzles, if possible. If not, withdraw ar | ove cargo or vehicle if in a fire, ISOLATE for 8 meters (1/2 mile) in all iners from fire area if yo ices as icing may occur case of rising sound from re fire in cargo area, use |
| Specific methods | Use standard firefighting procedures and consider the hazards of other in containers exposed to flames with water until well after the fire is out. | volved materials. Cool |
| General fire hazards | Extremely flammable gas. Contents under pressure. Pressurized contain exposed to heat or flame. | er may explode when |
| 6. Accidental release meas | sures | |
| Personal precautions. | In the event of a leak evacuate all personnel until ventilation can restore | oxvaen concentrations |

Personal precautions, protective equipment and emergency procedures In the event of a leak evacuate all personnel until ventilation can restore oxygen concentrations to safe levels. 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). Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. 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. 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. Stop leak if you can do so without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Use water spray to reduce vapors or divert vapor cloud drift. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will spread on the water surface. For waste disposal, see section 13 of the SDS. |
|---|---|
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. |
| 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. Do not smoke. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Avoid prolonged exposure. Do not enter storage areas or confined spaces unless adequately ventilated. Use only outdoors or in a well-ventilated area. Oxygen concentration should not fall below 19.5 % at sea level (pO2 = 135 mmHg). Mechanical ventilation or local exhaust ventilation may be required. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
| Conditions for safe storage, including any incompatibilities | Flammable compressed gas storage. Keep away from heat, sparks and open flame. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS). |

8. Exposure controls/personal protection

Occupational exposure limits

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

| Components | Туре | Value |
|------------------------------------|---|-----------------|
| Propane (CAS 74-98-6) | PEL | 1800 mg/m3 |
| | | 1000 ppm |
| US. ACGIH Threshold Limit | Values | |
| Components | Туре | Value |
| Ethylene (CAS 74-85-1) | TWA | 200 ppm |
| Isobutane (CAS 75-28-5) | STEL | 1000 ppm |
| Propylene (CAS 115-07-1) | TWA | 500 ppm |
| US. NIOSH: Pocket Guide to | Chemical Hazards | |
| Components | Туре | Value |
| Isobutane (CAS 75-28-5) | TWA | 1900 mg/m3 |
| | | 800 ppm |
| Propane (CAS 74-98-6) | TWA | 1800 mg/m3 |
| | | 1000 ppm |
| logical limit values | No biological exposure limits noted for the ingredient(s). | |
| propriate engineering htrols | 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. | |
| ividual protection measures, | such as personal protective equipm | ent |
| Eye/face protection | Wear safety glasses with side shield | s (or goggles). |
| Skin protection Hand protection | Wear appropriate chemical resistant | gloves. |
| Skin protection Other | Wear suitable protective clothing. | |

| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. |
|-----------------------------------|--|
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. Contact with liquefied gas might cause frostbites, in some cases with tissue damage. |
| General hygiene considerations | When using do not 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. |

9. Physical and chemical properties

| •••••••••••••••••••••••••••••••••••••• | |
|--|---|
| Appearance | |
| Physical state | Gas. |
| Form | Liquefied gas. |
| Color | Colorless. |
| Odor | Odorless (but may have skunk odor added). |
| Odor threshold | Not available. |
| рН | Not available. |
| Melting point/freezing point | -299 °F (-183.89 °C) Weighted average |
| Initial boiling point and boiling range | -43.96 - 11.12 °F (-42.211.6 °C) |
| Flash point | -212.53 °F (-135.85 °C) Closed Cup (Ethylene) |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Flammable gas. |
| Upper/lower flammability or exp | losive limits |
| Explosive limit - lower (%) | 1 % |
| Explosive limit - upper (%) | 9.5 % |
| Vapor pressure | Not available. |
| Vapor density | 1.6 |
| Relative density | 0.52 |
| Solubility(ies) | |
| Solubility (water) | Insoluble. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | > 500 °F (> 260 °C) |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Explosive properties | Not explosive. |
| Oxidizing properties | Not oxidizing. |
| VOC | 100 % |
| 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 | Hazardous polymerization does not occur. |
| Conditions to avoid | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. Reducing agents. Acids. Alkalis. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological information

Information on likely routes of exposure

Inhalation

Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels. Prolonged inhalation may be harmful.

| Skin contact | Contact with liquefied gas may cause frostbite. |
|--|--|
| Eye contact | Contact with liquefied gas may cause frostbite. |
| Ingestion | This material is a gas under normal atmospheric conditions and ingestion is unlikely. |
| Symptoms related to the physical, chemical and toxicological characteristics | Headache. Dizziness. Fatigue. Nausea, vomiting. Very high exposure can cause suffocation from lack of oxygen. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themself. |

Information on toxicological effects

Acute toxicity

| Components | Species | Test Results |
|--|--|---|
| Ethylene (CAS 74-85-1) | | |
| <u>Acute</u> | | |
| Oral | | |
| LD50 | Mouse | 1093 mg/l |
| Isobutane (CAS 75-28-5) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Mouse | 52 mg/l, 1 Hours |
| Propane (CAS 74-98-6) | | |
| Acute | | |
| Inhalation | | |
| Gas | | |
| LC50 | Rat | > 80000 ppm, 15 Minutes |
| Propylene (CAS 115-07-1) | | |
| <u>Acute</u> | | |
| Inhalation | | |
| Gas | | |
| LC50 | Rat | > 65000 ppm, 4 Hours |
| Skin corrosion/irritation | Contact with liquefied gas might cause | frostbites, in some cases with tissue damage. |
| Serious eye damage/eye irritation | Direct contact with liquefied gas may ca | ause eye damage from frostbite. |
| Respiratory or skin sensitization | | |
| Respiratory sensitization | Not a respiratory sensitizer. | |
| Skin sensitization | This product is not expected to cause skin sensitization. | |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. | |
| Carcinogenicity | Not classifiable as to carcinogenicity to humans. | |
| IARC Monographs. Overall E | valuation of Carcinogenicity | |
| Ethylene (CAS 74-85-1) Propylene (CAS 115-07-1 NTP Report on Carcinogens Not listed. | 3 Not classifiable as to carcinogenicity to humans.3 Not classifiable as to carcinogenicity to humans. | |
| OSHA Specifically Regulated Not listed. | d Substances (29 CFR 1910.1001-1053 |) |
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. | |
| | | |
| Specific target organ toxicity - single exposure | Not classified. | |
| Specific target organ toxicity - | Not classified. | |
| Specific target organ toxicity - single exposure Specific target organ toxicity - | | ct. |

12. Ecological information

| • | | | | | |
|---|---|--|--|--|--|
| Ecotoxicity | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. | | | | |
| Persistence and degradability | No data is available on the degradability of this product. | | | | |
| Bioaccumulative potential | The product is not bioaccumulating. | | | | |
| Partition coefficient n-octanol / water (log Kow) | | | | | |
| Ethane (CAS 74-84-0) | 1.81 | | | | |
| Ethylene (CAS 74-85-1) | 1.13 | | | | |
| Isobutane (CAS 75-28-5) | 2.76 | | | | |
| Propylene (CAS 115-07-1) | 1.77 | | | | |
| Mobility in soil | Not relevant, due to the form of the product. | | | | |
| Other adverse effects | The product contains volatile organic compounds which have a photochemical ozone creation potential. | | | | |
| 13. Disposal consideration | ns | | | | |
| Disposal instructions | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not incinerate sealed containers. Dispose of contents/container in accordance with local/regional/national/international regulations. | | | | |
| Local disposal regulations | Dispose in accordance with all applicable regulations. | | | | |

| Eesan alopesan regulations | |
|--|--|
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| 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 | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |

14. Transport information

| DOT |
|-----|
|-----|

| DOT | |
|------------------------------|---|
| UN number | UN1075 |
| UN proper shipping name | Petroleum gases, liquefied |
| 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. |
| Special provisions | Т50 |
| Packaging exceptions | 306 |
| Packaging non bulk | 304 |
| Packaging bulk | 314, 315 |
| ΙΑΤΑ | |
| UN number | UN1075 |
| UN proper shipping name | Petroleum gases, liquefied |
| Transport hazard class(es) | |
| Class | 2.1 |
| Subsidiary risk | - |
| Label(s) | 2.1 |
| Packing group | Not applicable |
| Environmental hazards | No |
| ERG Code | 10L |
| | Read safety instructions, SDS and emergency procedures before handling. |
| IMDG | |
| UN number | UN1075 |
| UN proper shipping name | PETROLEUM GASES, LIQUEFIED |
| Transport hazard class(es) | |
| Class | 2.1 |
| Subsidiary risk | - |
| Label(s) | 2.1 |

| | Not applicable | | | | | |
|---|---|--|--|----------------|--|--|
| Packing group Environmental hazards | Not applicable | | | | | |
| Marine pollutant | No | | | | | |
| EmS | <u>E-D</u> , S-U | | | | | |
| _ | | r Read safety instructions, SDS and emergency procedures before handling. | | | | |
| Transport in bulk according to | Not applicable. | | | | | |
| Annex II of MARPOL 73/78 and | | | | | | |
| the IBC Code | | | | | | |
| General information | | | ed as examples only. Classification for | | | |
| | | | ignated under a variety of regulations | and is solely | | |
| | the responsibility of th | he person offering the ma | aterial for transport into commerce. | | | |
| 15. Regulatory information | n | | | | | |
| US federal regulations | | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. | | | | |
| TSCA Section 12(b) Exp | oort Notification (40 C | FR 707, Subpt. D) | | | | |
| Not regulated. | , | , , , | | | | |
| CERCLA Hazardous Su | bstance List (40 CFR | 302.4) | | | | |
| Ethane (CAS 74-84- | | Listed. | | | | |
| Ethylene (CAS 74-8 | , | Listed. | | | | |
| Isobutane (CAS 75-2 | | Listed. | | | | |
| Propane (CAS 74-98 | | Listed. | | | | |
| Propylene (CAS 115 | | Listed. | | | | |
| SARA 304 Emergency r | elease notification | | | | | |
| Not regulated. | | | | | | |
| OSHA Specifically Reg | ulated Substances (29 | CFR 1910.1001-1053) | | | | |
| Not listed. | | | | | | |
| Toxic Substances Control A | Act (TSCA) | All components of the "active". | mixture on the TSCA 8(b) inventory | are designated | | |
| Superfund Amendments and Re | authorization Act of 1 | 986 (SARA) | | | | |
| SARA 302 Extremely hazard | dous substance | | | | | |
| Not listed. | | | | | | |
| SARA 311/312 Hazardous | Yes | | | | | |
| chemical | | | | | | |
| chemical Classified hazard | Flammable (gases, a | erosols, liquids, or solids | :) | | | |
| | Gas under pressure | erosols, liquids, or solids | ;) | | | |
| Classified hazard | | erosols, liquids, or solids | e) | | | |
| Classified hazard categories SARA 313 (TRI reporting) | Gas under pressure | erosols, liquids, or solids | ;)) | | | |
| Classified hazard categories | Gas under pressure | erosols, liquids, or solids CAS number | ;) % by wt | | | |
| Classified hazard categories SARA 313 (TRI reporting) | Gas under pressure | | | | | |
| Classified hazard categories SARA 313 (TRI reporting) Chemical name | Gas under pressure | CAS number | % by wt. | | | |
| Classified hazard categories SARA 313 (TRI reporting) Chemical name Ethylene | Gas under pressure | CAS number 74-85-1 | % by wt. 0 - 10 | | | |
| Classified hazard categories SARA 313 (TRI reporting) Chemical name Ethylene Propylene | Gas under pressure Simple asphyxiant | CAS number 74-85-1 115-07-1 | % by wt. 0 - 10 | | | |
| Classified hazard categories SARA 313 (TRI reporting) Chemical name Ethylene Propylene Other federal regulations | Gas under pressure Simple asphyxiant | CAS number 74-85-1 115-07-1 | % by wt. 0 - 10 | | | |
| Classified hazard categories SARA 313 (TRI reporting) Chemical name Ethylene Propylene Other federal regulations Clean Air Act (CAA) Section | Gas under pressure Simple asphyxiant | CAS number 74-85-1 115-07-1 ollutants (HAPs) List | <mark>% by wt.</mark> 0 - 10 50 - 80 | | | |
| Classified hazard categories SARA 313 (TRI reporting) Chemical name Ethylene Propylene Other federal regulations Clean Air Act (CAA) Section Not regulated. | Gas under pressure Simple asphyxiant | CAS number 74-85-1 115-07-1 ollutants (HAPs) List | <mark>% by wt.</mark> 0 - 10 50 - 80 | | | |
| Classified hazard categories SARA 313 (TRI reporting) Chemical name Ethylene Propylene Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Ethane (CAS 74-84-0) Ethylene (CAS 74-85-1) | Gas under pressure Simple asphyxiant | CAS number 74-85-1 115-07-1 ollutants (HAPs) List | <mark>% by wt.</mark> 0 - 10 50 - 80 | | | |
| Classified hazard categories SARA 313 (TRI reporting) Chemical name Ethylene Propylene Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Ethane (CAS 74-84-0) Ethylene (CAS 74-85-1) Isobutane (CAS 75-28-5) | Gas under pressure Simple asphyxiant | CAS number 74-85-1 115-07-1 ollutants (HAPs) List | <mark>% by wt.</mark> 0 - 10 50 - 80 | | | |
| Classified hazard categories SARA 313 (TRI reporting) Chemical name Ethylene Propylene Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Ethane (CAS 74-84-0) Ethylene (CAS 74-85-1) Isobutane (CAS 75-28-5) Propane (CAS 74-98-6) | Gas under pressure Simple asphyxiant | CAS number 74-85-1 115-07-1 ollutants (HAPs) List | <mark>% by wt.</mark> 0 - 10 50 - 80 | | | |
| Classified hazard categories SARA 313 (TRI reporting) Chemical name Ethylene Propylene Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Ethane (CAS 74-84-0) Ethylene (CAS 74-85-1) Isobutane (CAS 75-28-5) Propane (CAS 74-98-6) Propylene (CAS 115-07- | Gas under pressure Simple asphyxiant 112 Hazardous Air P 112(r) Accidental Re | CAS number 74-85-1 115-07-1 ollutants (HAPs) List | <mark>% by wt.</mark> 0 - 10 50 - 80 | | | |
| Classified hazard categories SARA 313 (TRI reporting) Chemical name Ethylene Propylene Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Ethane (CAS 74-84-0) Ethylene (CAS 74-85-1) Isobutane (CAS 75-28-5) Propane (CAS 74-98-6) | Gas under pressure Simple asphyxiant | CAS number 74-85-1 115-07-1 ollutants (HAPs) List | <mark>% by wt.</mark> 0 - 10 50 - 80 | | | |
| Classified hazard categories SARA 313 (TRI reporting) Chemical name Ethylene Propylene Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Ethane (CAS 74-84-0) Ethylene (CAS 74-84-0) Ethylene (CAS 74-85-1) Isobutane (CAS 74-85-1) Isobutane (CAS 75-28-5) Propane (CAS 74-98-6) Propylene (CAS 115-07-15) Safe Drinking Water Act (SDWA) | Gas under pressure Simple asphyxiant 112 Hazardous Air P 112(r) Accidental Re | CAS number 74-85-1 115-07-1 ollutants (HAPs) List | <mark>% by wt.</mark> 0 - 10 50 - 80 | | | |
| Classified hazard categories SARA 313 (TRI reporting) Chemical name Ethylene Propylene Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Ethane (CAS 74-84-0) Ethylene (CAS 74-85-1) Isobutane (CAS 74-85-1) Isobutane (CAS 74-98-6) Propane (CAS 74-98-6) Propylene (CAS 115-07-75) | Gas under pressure Simple asphyxiant 112 Hazardous Air P 112(r) Accidental Re 1) Not regulated. | CAS number 74-85-1 115-07-1 ollutants (HAPs) List | <mark>% by wt.</mark> 0 - 10 50 - 80 | | | |
| Classified hazard categories SARA 313 (TRI reporting) Chemical name Ethylene Propylene Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Ethane (CAS 74-84-0) Ethylene (CAS 74-85-1) Isobutane (CAS 74-85-1) Isobutane (CAS 74-85-1) Propane (CAS 74-98-6) Propylene (CAS 115-07- Safe Drinking Water Act (SDWA) US state regulations US. Massachusetts RTK - S | Gas under pressure Simple asphyxiant 112 Hazardous Air P 112(r) Accidental Re 1) Not regulated. | CAS number 74-85-1 115-07-1 ollutants (HAPs) List | <mark>% by wt.</mark> 0 - 10 50 - 80 | | | |
| Classified hazard categories SARA 313 (TRI reporting) Chemical name Ethylene Propylene Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Ethane (CAS 74-84-0) Ethylene (CAS 74-85-1) Isobutane (CAS 74-85-1) Isobutane (CAS 74-85-1) Propane (CAS 74-98-6) Propylene (CAS 115-07- Safe Drinking Water Act (SDWA) US state regulations US. Massachusetts RTK - S Ethane (CAS 74-84-0) | Gas under pressure Simple asphyxiant 112 Hazardous Air P 112(r) Accidental Re 1) Not regulated. | CAS number 74-85-1 115-07-1 ollutants (HAPs) List | <mark>% by wt.</mark> 0 - 10 50 - 80 | | | |
| Classified hazard categories SARA 313 (TRI reporting) Chemical name Ethylene Propylene Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Ethane (CAS 74-84-0) Ethylene (CAS 74-85-1) Isobutane (CAS 74-85-1) Isobutane (CAS 74-85-1) Propane (CAS 74-98-6) Propylene (CAS 115-07- Safe Drinking Water Act (SDWA) US state regulations US. Massachusetts RTK - S | Gas under pressure Simple asphyxiant 112 Hazardous Air P 112(r) Accidental Re Not regulated. ubstance List | CAS number 74-85-1 115-07-1 ollutants (HAPs) List | <mark>% by wt.</mark> 0 - 10 50 - 80 | | | |
| Classified hazard categories SARA 313 (TRI reporting) Chemical name Ethylene Propylene Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Ethane (CAS 74-84-0) Ethylene (CAS 74-85-1) Isobutane (CAS 74-85-1) Isobutane (CAS 74-98-6) Propane (CAS 115-07- Safe Drinking Water Act (SDWA) US state regulations US. Massachusetts RTK - S Ethane (CAS 74-84-0) Ethylene (CAS 74-85-1) | Gas under pressure Simple asphyxiant 112 Hazardous Air P 112(r) Accidental Re Not regulated. ubstance List | CAS number 74-85-1 115-07-1 ollutants (HAPs) List | <mark>% by wt.</mark> 0 - 10 50 - 80 | | | |

Propane (CAS 74-98-6) Propylene (CAS 115-07-1)

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

Ethane (CAS 74-84-0) Ethylene (CAS 74-85-1) Isobutane (CAS 75-28-5) Propane (CAS 74-98-6) Propylene (CAS 115-07-1)

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

Ethane (CAS 74-84-0) Ethylene (CAS 74-85-1) Isobutane (CAS 75-28-5) Propane (CAS 74-98-6) Propylene (CAS 115-07-1)

US. Rhode Island RTK

Ethane (CAS 74-84-0) Ethylene (CAS 74-85-1) Propane (CAS 74-98-6) Propylene (CAS 115-07-1)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Isobutane (CAS 75-28-5) Propylene (CAS 115-07-1)

International Inventories

| Country(s) or region | Inventory name On | inventory (yes/no)* | | |
|---|---|---------------------|--|--|
| Australia | Australian Inventory of Industrial Chemicals (AICIS) | Yes | | |
| 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) | Yes | | |
| Korea | Existing Chemicals List (ECL) | Yes | | |
| New Zealand | New Zealand Inventory | Yes | | |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes | | |
| Taiwan | Taiwan Chemical Substance Inventory (TCSI) | Yes | | |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes | | |
| *A "Vea" indicates that all company to of this product comply with the investory requirements administered by the coverning coverta (a) | | | | |

*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 Revision date Version # NFPA ratings



The information in this Safety Data Sheet (SDS) was obtained from sources believed to be reliable and accurate, and is not represented as being absolutely complete. The end user of this product has the responsibility for evaluating the adequacy of the data for the intended application and conditions of use; for determining the safety, toxicity, regulatory requirements, and suitability of the product under these conditions; and for obtaining additional or clarifying data where uncertainty exists. The data serves as general guidance only, and is to be used in combination with professional judgement of persons experienced in a specific application, use or process; and additional data may be required. Valero Marketing & Supply Co., (Valero) provides this data without any warranty, expressed or implied regarding its correctness or accuracy; and does not assume any liability arising out of product handling, storage, use or disposal by others.