

# SAFETY DATA SHEET

NGL

## Section 1. Identification

**Product name** : NGL  
**Product description** : petroleum hydrocarbons  
**Other means of identification** : West Texas NGL; West Texas NGL at BMRF GP5E

### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** : Refinery process stream  
**Uses advised against** : This product is not recommended for any industrial, professional or consumer use other than the identified uses above.

**Supplier** : EXXONMOBIL OIL CORPORATION  
22777 Springwoods Village Parkway  
Spring, TX 77389 USA

**24-Hour emergency telephone number** : 1-800-424-9300 / +1 703-741-5970 / +1-703-527-3887 (CHEMTREC)

**Supplier General Contact** : 800-662-4525

**SDS Internet Address** : [www.sds.exxonmobil.com](http://www.sds.exxonmobil.com)

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 1  
SKIN IRRITATION - Category 2  
GERM CELL MUTAGENICITY - Category 1B  
CARCINOGENICITY - Category 1A  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
ASPIRATION HAZARD - Category 1

### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : H224 - Extremely flammable liquid and vapor.  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H336 - May cause drowsiness or dizziness.  
H340 - May cause genetic defects.  
H350 - May cause cancer.

### Precautionary statements

**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, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240 - Ground and bond container and receiving equipment.  
P241 - Use explosion-proof electrical, ventilating or lighting equipment.  
P242 - Use non-sparking tools.  
P243 - Take action to prevent static discharges.

## Section 2. Hazards identification

	P261 - Avoid breathing vapor. P264 - Wash thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves, protective clothing and eye or face protection.
<b>Response</b>	: P301 + P331, P310 - IF SWALLOWED: Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. P302 + P352 - IF ON SKIN: Wash with plenty of water. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304 + P312, P340 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing. P308 + P313 - IF exposed or concerned: Get medical advice or attention. P332 + P313 - If skin irritation occurs: Get medical advice/attention. P362 + P364 - Take off contaminated clothing and wash it before reuse. P370 + P378 - In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish.
<b>Storage</b>	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool. P405 - Store locked up.
<b>Disposal</b>	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Contains</b>	: natural gas (petroleum), raw liquid mix
<b>Hazards not otherwise classified</b>	: None known.
<b>Note</b>	: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: Substance
<b>Chemical name</b>	: natural gas (petroleum), raw liquid mix

Ingredient name	Synonyms	%	Identifiers
natural gas (petroleum), raw liquid mix	Low boiling point naphtha - unspecified; Natural gas, petroleum, raw liquid mix; Natural gas, liquids; natural gas (petroleum), raw liquid mix; Natural gas (petroleum), raw liq. mix, Low boiling point naphtha - unspecified; NATURAL GAS LIQUIDS	100	CAS: 64741-48-6
1,3-butadiene	buta-1,3-diene; .alpha.,.gamma.-Butadiene; Biethylene; Bivinyll; Erythrene; Pyrrolylene; Vinylethylene; Butadiene (1,3-Butadiene); Butadiene; Divinyll; butadiene in gaseous state, impure	0.1	CAS: 106-99-0
benzene	Phenyl hydride; Benzol; benzene, pure; benzene, crude; benzol, pure; benzole, pure; cyclohexatriene, pure; 1,3,5-cyclohexatriene, pure; phene, pure; phenyl hydride, pure; pyrobenzol, pure; pyrobenzole,	0.1	CAS: 71-43-2

## Section 3. Composition/information on ingredients

	<p>pure; [6]annulene, pure; coal naphtha, pure; benzol, crude; benzole, crude; cyclohexatriene, crude; 1,3,5-cyclohexatriene, crude; phene, crude; phenyl hydride, crude; pyrobenzol, crude; pyrobenzole, crude; [6]annulene, crude; coal naphtha, crude; BENZOL DILUENT; Cyclohexatriene; Benzene (I,T); BENZENE, UNREFINED; COAL NAPHTHA</p>		
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Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Remove contaminated clothing. Dry wipe exposed skin and cleanse with waterless hand cleaner and follow by washing thoroughly with soap and water. For those providing assistance, avoid further skin contact to yourself or others. Wear impervious gloves. Launder contaminated clothing separately before reuse. Discard contaminated articles that cannot be laundered. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury. Wash clothing before reuse. Clean shoes thoroughly before reuse. Continue to rinse for at least 10 minutes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Get medical attention.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Causes skin irritation.

## Section 4. First aid measures

**Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

**Inhalation** : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness

**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.

**Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately. This material, or a component, may be associated with cardiac sensitization following very high exposures (well above occupational exposure limits) or with concurrent exposure to high stress levels or heart-stimulating substances like epinephrine. Administration of such substances should be avoided.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : Extremely flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion products** : hydrogen sulfide, Incomplete combustion products, Oxides of carbon, Smoke, Fume, sulfur oxides

## Section 5. Fire-fighting measures

- Special protective actions for fire-fighters** : Use standard firefighting procedures and consider the hazards of other involved materials. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Assure an extended cooling down period to prevent re-ignition. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on appropriate personal protective equipment. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Eliminate all ignition sources. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. If the Flash Point does not exceed the Ambient Air Temperature by at least 10C, use booms as a barrier to protect shorelines and allow material to evaporate. If the Flash Point exceeds the Ambient Temperature by 10 degrees C or more, use containment booms and remove from the surface by skimming or with suitable absorbents when conditions permit. Seek the advice of a specialist before using dispersants. Warn other shipping. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.



## Section 8. Exposure controls/personal protection

methane	<b>ACGIH TLV (United States, 1/2025)</b> Oxygen depletion [asphyxiant] , Explosive potential.
propane	<b>NIOSH REL (United States, 10/2020)</b> TWA 10 hours: 1000 ppm. TWA 10 hours: 1800 mg/m <sup>3</sup> . <b>CAL OSHA PEL (United States, 1/2025)</b> TWA 8 hours: 1800 mg/m <sup>3</sup> . TWA 8 hours: 1000 ppm. <b>OSHA PEL (United States, 5/2018)</b> TWA 8 hours: 1000 ppm. TWA 8 hours: 1800 mg/m <sup>3</sup> . <b>OSHA PEL 1989 (United States, 3/1989)</b> TWA 8 hours: 1000 ppm. TWA 8 hours: 1800 mg/m <sup>3</sup> . <b>ACGIH TLV (United States, 1/2025)</b> Oxygen depletion [asphyxiant] , Explosive potential.
pentane	<b>NIOSH REL (United States, 10/2020)</b> TWA 10 hours: 120 ppm. TWA 10 hours: 350 mg/m <sup>3</sup> . CEIL 15 minutes: 610 ppm. CEIL 15 minutes: 1800 mg/m <sup>3</sup> . <b>CAL OSHA PEL (United States, 1/2025)</b> TWA 8 hours: 1800 mg/m <sup>3</sup> . TWA 8 hours: 600 ppm. <b>OSHA PEL (United States, 5/2018)</b> TWA 8 hours: 1000 ppm. TWA 8 hours: 2950 mg/m <sup>3</sup> . <b>OSHA PEL 1989 (United States, 3/1989)</b> TWA 8 hours: 600 ppm. TWA 8 hours: 1800 mg/m <sup>3</sup> . STEL 15 minutes: 750 ppm. STEL 15 minutes: 2250 mg/m <sup>3</sup> . <b>ACGIH TLV (United States, 1/2025) [Pentane]</b> TWA 8 hours: 1000 ppm.
isopentane	<b>ACGIH TLV (United States, 1/2025) [Pentane]</b> TWA 8 hours: 1000 ppm.
1,3-butadiene	<b>CAL OSHA PEL (United States, 1/2025)</b> STEL 15 minutes: 11 mg/m <sup>3</sup> . STEL 15 minutes: 5 ppm. TWA 8 hours: 2.2 mg/m <sup>3</sup> . TWA 8 hours: 1 ppm. <b>OSHA PEL (United States, 5/2018)</b> TWA 8 hours: 1 ppm. STEL 15 minutes: 5 ppm. <b>OSHA PEL 1989 (United States, 3/1989)</b> TWA 8 hours: 1 ppm. STEL 15 minutes: 5 ppm. <b>ACGIH TLV (United States, 1/2025)</b> TWA 8 hours: 2 ppm. TWA 8 hours: 4.4 mg/m <sup>3</sup> .
benzene	<b>NIOSH REL (United States, 10/2020)</b> TWA 10 hours: 0.1 ppm. STEL 15 minutes: 1 ppm. <b>OSHA PEL Z2 (United States, 2/2013)</b> TWA 8 hours: 10 ppm. CEIL: 25 ppm. AMP 10 minutes: 50 ppm. <b>CAL OSHA PEL (United States, 1/2025)</b> Absorbed through skin. STEL 15 minutes: 5 ppm. TWA 8 hours: 1 ppm. <b>OSHA PEL (United States, 5/2018)</b>



## Section 8. Exposure controls/personal protection

end of shift.

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

**Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

**Physical state** : Liquid.

**Color** : Brown

**Odor** : Petroleum/Solvent

**Odor threshold** : Not available.

**pH** : Not applicable.

**Melting point/freezing point** : Not available.

## Section 9. Physical and chemical properties

<b>Boiling point or initial boiling point and boiling range</b>	: <35°C (<95°F) [Estimated]
<b>Flash point</b>	: Closed cup: <0°C (<32°F) [ASTM D-56]
<b>Evaporation rate</b>	: Not available.
<b>Flammability</b>	: Flammable liquids - Category 1
<b>Lower and upper explosion limit/flammability limit</b>	: Lower: 1.4% Upper: 7.6%
<b>Vapor pressure</b>	: <450.04 mm Hg [20 °C]
<b>Relative vapor density</b>	: Not available.
<b>Relative density</b>	: 0.75
<b>Solubility in water</b>	: Negligible
<b>Partition coefficient: n-octanol/water</b>	: Not applicable.
<b>Auto-ignition temperature</b>	: >250°C (>482°F)
<b>Decomposition temperature</b>	: Not applicable.
<b>Viscosity</b>	: <7 cSt [40 °C]
<b><u>Particle characteristics</u></b>	
<b>Median particle size</b>	: Not applicable.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
<b>Incompatible materials</b>	: Reactive or incompatible with the following materials:,oxidizing materials,Strong oxidizers
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result
Natural gas (petroleum), raw liquid mix	<b>Rabbit - Dermal - LD50</b> >2000 mg/kg <b>Rat - Oral - LD50</b> >5000 mg/kg <b>Rat - Inhalation - LC50 Vapor</b> >5140 mg/m <sup>3</sup> [4 hours]

#### **Conclusion/Summary**

<b>Inhalation</b>	: Minimally Toxic. Data available. Based on test data for structurally similar materials. Test (s) equivalent or similar to OECD Guideline 403
<b>Dermal</b>	: Minimally Toxic. Data available. Based on test data for structurally similar materials. Test (s) equivalent or similar to OECD Guideline 402

## Section 11. Toxicological information

**Oral** : Minimally Toxic. Data available. Based on test data for structurally similar materials. Test (s) equivalent or similar to OECD Guideline 401

### Irritation/Corrosion

#### Conclusion/Summary

**Skin** : Irritating to the skin. Data available. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 404

**Eyes** : May cause mild, short-lasting discomfort to eyes. Data available. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 405

**Respiratory** : Negligible hazard at ambient/normal handling temperatures. No end point data for material.

### Respiratory or skin sensitization

#### Conclusion/Summary

**Skin** : Not expected to be a skin sensitizer. Data available. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 406

**Respiratory** : Not expected to be a respiratory sensitizer. No end point data for material.

### Mutagenicity

#### Conclusion/Summary

: May cause genetic defects. No end point data for material. Based on assessment of the components.

### Carcinogenicity

#### Conclusion/Summary

: May cause cancer. No end point data for material. Based on assessment of the components.

### Classification

Product/ingredient name	OSHA	IARC	NTP
1,3-butadiene	+	1	Known to be a human carcinogen.
benzene	+	1	Known to be a human carcinogen.

**Not available.**

### Reproductive toxicity

#### Conclusion/Summary

: Not expected to be a reproductive toxicant. Data available. Based on test data for structurally similar materials.

### Specific target organ toxicity (single exposure)

#### Conclusion/Summary

: May cause drowsiness or dizziness. Data available.

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Target organs
natural gas (petroleum), raw liquid mix	Not applicable.	-

#### Conclusion/Summary

: Not expected to cause organ damage from prolonged or repeated exposure. Data available. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 408 410 413 453

### Aspiration hazard

Product/ingredient name	Result
natural gas (petroleum), raw liquid mix	Category 1

#### Conclusion/Summary

: May be fatal if swallowed and enters airways. Based on physico-chemical properties of the material. Data available.

### Other information

#### Contains

: 1,3- Butadiene. 1,3-Butadiene is a multi-site carcinogen in rodents. Epidemiology studies indicate an association between exposure to 1,3-butadiene and leukemia in humans. Mutations have been observed in in-vitro and in-vivo rodent assays. Although several older studies had conflicting results, a newer screening study in rats showed no adverse reproductive or developmental effects. BENZENE: Caused cancer (acute myeloid leukemia and myelodysplastic syndrome), damage to the blood-producing system, and serious blood disorders in human studies. Caused genetic effects and effects on the immune system in laboratory animal and some human studies. Caused

## Section 11. Toxicological information

toxicity to the fetus and cancer in laboratory animal studies.

- Product** : May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Vapor/aerosol concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects including death. Exposure to this material, or one of its components, in situations where there is the potential for high levels, such as in confined spaces or with abuse, may result in abnormal heart rhythm (arrhythmia). High-level exposure to hydrocarbons (above occupational exposure limits) may initiate arrhythmia in a worker that is undergoing stress or is taking a heart-stimulating substance such as epinephrine, a nasal decongestant, or an asthma or cardiovascular drug. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

## Section 12. Ecological information

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

### Toxicity

#### Conclusion/Summary

- Acute toxicity** : Toxic to aquatic life.  
**Chronic toxicity** : Toxic to aquatic life with long lasting effects.

#### Persistence and degradability

- Biodegradability** : High molecular wt. component -- Expected to be persistent. Low molecular wt. component -- Expected to be inherently biodegradable  
**Photolysis** : More water soluble component -- Expected to degrade at a moderate rate in water when exposed to sunlight.  
**Atmospheric Oxidation** : More volatile component -- Expected to degrade rapidly in air

#### Bioaccumulative potential

- Conclusion/Summary** : Components -- Has the potential to bioaccumulate.

#### Mobility in soil

- Mobility** : Less volatile component -- Expected to partition to sediment and wastewater solids. Low solubility and floats and is expected to migrate from water to the land. More volatile component -- Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

#### Other ecological information

- Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

- Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.  
 Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

## Section 14. Transport information

### Additional information

Material not assessed for transportation.

Not applicable.

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) PAIR: pentane  
 TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
 TSCA 8(d) H and S data reporting: benzene  
 Clean Water Act (CWA) 307: benzene  
 Clean Water Act (CWA) 311: benzene  
 Clean Air Act (CAA) 112 regulated flammable substances: isobutane; butane; methane; propane; pentane; isopentane

### TSCA 12(b) - Chemical export notification

Not applicable.

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : FLAMMABLE LIQUIDS - Category 1  
 SKIN IRRITATION - Category 2  
 GERM CELL MUTAGENICITY - Category 1B  
 CARCINOGENICITY - Category 1A  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
 ASPIRATION HAZARD - Category 1

### SARA 313

	Product name	CAS number	%
<b>Form R - Reporting requirements</b>	1,3-butadiene	106-99-0	0.1
	benzene	71-43-2	0.1
<b>Supplier notification</b>	1,3-butadiene	106-99-0	0.1
	benzene	71-43-2	0.1


SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

## Section 15. Regulatory information

- Massachusetts** : The following components are listed: ISOBUTANE; BUTANE; METHANE; PROPANE; PENTANE; ISOPENTANE
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: Isobutane; BUTANE; METHANE; PROPANE; PENTANE; ISOPENTANE; 1,3-BUTADIENE; BENZENE
- Pennsylvania** : The following components are listed: PROPANE, 2-METHYL-; BUTANE; METHANE; PROPANE; PENTANE; BUTANE, 2-METHYL-
- Illinois** : None of the components are listed.

### California Prop. 65

 **WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### Inventory list

- Australia inventory (AIC)** : All components are listed or exempted.
- Canada inventory (DSL-NDSL)** : All components are listed or exempted.
- China inventory (IECSC)** : Not determined.
- Japan inventory (CSCL)** : Not determined.
- Japan inventory (Industrial Safety and Health Act)** : Not determined.
- New Zealand Inventory of Chemicals (NZIoC)** : Not determined.
- Philippines inventory (PICCS)** : Not determined.
- Korea inventory (KECI)** : All components are listed or exempted.
- Taiwan Chemical Substances Inventory (TCSI)** : Not determined.
- United States inventory (TSCA 8b)** : All components are active or exempted.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

Health	*	3
Flammability		4
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)



### Procedure used to derive the classification

## Section 16. Other information

Classification	Justification
FLAMMABLE LIQUIDS - Category 1	Expert judgment
SKIN IRRITATION - Category 2	Expert judgment
GERM CELL MUTAGENICITY - Category 1B	Expert judgment
CARCINOGENICITY - Category 1A	Expert judgment
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Expert judgment
ASPIRATION HAZARD - Category 1	Expert judgment

### History

**Date of issue/Date of revision** : 15 January 2026

**Date of previous issue** : 24 June 2024

**Version** : 2

**Key to abbreviations** :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- SGG = Segregation Group
- UN = United Nations

**References** : Not available.

✔ Indicates information that has changed from previously issued version.

**Product code** : 1136426

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