

<b>Product name</b>	CRUDE C4s (STEAM CRACKED)	<b>SDS Number:</b>	1149287
<b>Date of revision</b>	29 July 2025	<b>Version</b>	3
<b>First issue date</b>	23 November 2023		

# SAFETY DATA SHEET

# ExxonMobil

CRUDE C4s (STEAM CRACKED)

## Section 1. Identification

**Product name** : CRUDE C4s (STEAM CRACKED)  
**Product description** : Chemical Intermediate , Gas or Liquefied Gas

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

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

**Supplier** : ExxonMobil (Huizhou) Chemical Co., Ltd  
 No. 1, Aotou Tianhou South Road  
 Daya Bay District, Huizhou City, Guangdong Province  
 516200

**24 Hour Emergency Telephone** : (+86)0532-83889090 (NRCC)

**Supplier General Contact** : (+86) 752-5518888

**E-Mail** : sds-CN.SM@exxonmobil.com

**SDS Internet Address** : www.sds.exxonmobil.com

## Section 2. Hazards identification

Classification of the substance or mixture is in accordance with national standard GB30000 series of Specification/Rules for classification and labeling of chemicals

### Emergency overview

**Physical state** : Gas. [Compressed or Liquefied]

**Colour** : Colourless

**Odour** : Aromatic

Extremely flammable gas.

Contains gas under pressure; may explode if heated.

May cause genetic defects.

May cause cancer.

Acts as a simple asphyxiant. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.

 exposed or concerned, get medical advice.

**Classification of the substance or mixture** :  LAMMABLE GASES - Category 1A  
 GASES UNDER PRESSURE - Liquefied gas  
 GERM CELL MUTAGENICITY - Category 1B  
 CARCINOGENICITY - Category 1A

### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

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## Section 2. Hazards identification

**Hazard statements** : H220 - Extremely flammable gas.  
H280 - Contains gas under pressure; may explode if heated.  
H340 - May cause genetic defects.  
H350 - May cause cancer.

### Precautionary statements

**Prevention** : P203 - Obtain, read and follow all safety instructions before use.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.

**Response** : P318 - IF exposed or concerned, get medical advice.  
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  
P381 - In case of leakage, eliminate all ignition sources.

**Storage** : P405 - Store locked up.  
P410 + P403 - Protect from sunlight. Store in a well-ventilated place.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Physical and chemical hazards** : Extremely flammable gas. Contains gas under pressure; may explode if heated.

**Health hazards** : May cause genetic defects. May cause cancer. Acts as a simple asphyxiant. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:  
frostbite

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:  
frostbite

**Ingestion** : Adverse symptoms may include the following:  
frostbite

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Environmental hazards** : No known significant effects or critical hazards.

**Contains** : hydrocarbons,c4, ethylene-manuf.-by-product

**Other hazards which do not result in classification** : Acts as a simple asphyxiant. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.

**Nota** : 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.

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## Section 2. Hazards identification

## Section 3. Composition/information on ingredients

**Substance/mixture** : Substance  
**Chemical name** : hydrocarbons,c4, ethylene-manuf.-by-product

Ingredient name	% (v/v)	Identifiers
hydrocarbons,c4, ethylene-manuf.-by-product	100	CAS: 68476-52-8
1,3-butadiene	45 - 60	CAS: 106-99-0
isobutane (containing ≥ 0.1 % butadiene (203-450-8))	0.1 - 1.5	CAS: 75-28-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

## Section 4. First-aid measures

### First aid

- 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 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** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. In case of contact with liquid, warm frozen tissues slowly with lukewarm water and get medical attention. Do not rub affected area. If burned by contact with hot material, molten material adhering to skin should be cooled as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn. Wash clothing before reuse. Clean shoes thoroughly before reuse. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Continue to rinse for at least 10 minutes. Get medical attention.
- 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.
- Ingestion** : Get medical attention. Ingestion of liquid can cause burns similar to frostbite. If frostbite occurs, get medical attention. 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. As this product rapidly becomes a gas when released, refer to the inhalation section.

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

#### Potential acute health effects

- Inhalation** : At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
- Skin contact** : Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.
- Eye contact** : Liquid can cause burns similar to frostbite.
- Ingestion** : Ingestion of liquid can cause burns similar to frostbite.

#### Over-exposure signs/symptoms

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## Section 4. First-aid measures

- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
frostbite
- Eye contact** : Adverse symptoms may include the following:  
frostbite
- Ingestion** : Adverse symptoms may include the following:  
frostbite

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

- 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.
- Notes to physician** : 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.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

- Suitable extinguishing media** : Use water fog, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.
- Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion.

**Hazardous combustion products** : Incomplete combustion products, Oxides of carbon, Smoke, Fume

**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. Contact supplier immediately for specialist advice. 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. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so. Prevent run-off 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. For incidents involving large quantities, thermally insulated undergarments and thick textile or leather gloves should be worn.

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## 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.

### 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on appropriate personal protective equipment. Accidental releases pose a serious fire or explosion hazard. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Avoid breathing gas.

**For emergency responders** : If specialised 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** : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Avoid dispersal of spilt 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).

### Methods and material for containment and cleaning up

**Small spill** : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

**Large spill** : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

**Precautionary measures to prevent the occurrence of secondary disasters** : Accidental releases pose a serious fire or explosion hazard. Shut off all ignition sources. No flares, smoking or flames in hazard area. Use spark-proof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas.

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 7. Handling and storage

### Precautions for safe handling

**Precautions for operating** : Thermal burn hazard - contact with hot material may cause thermal burns. Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Contact with rapidly expanding gas may cause burns or frostbite.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Static Accumulator** : This material is a static accumulator.

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## Section 7. Handling and storage

**Loading/Unloading Temperature** : Ambient

**Transport Temperature** : Ambient

**Transport Pressure** : Ambient

**Conditions for safe storage** : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

**Storage Temperature** : Ambient

**Storage Pressure** : Ambient

**Suitable Containers/Packing** : Pipelines, Barges, Dedicated Railcars, Tank Trucks, Tank Vessel

**Suitable Materials and Coatings** : steel, zinc, PTFE, Vinyl Coatings

**Unsuitable Materials and Coatings** : aluminium, Plastics, Natural Rubber, butyl rubber

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
1,3-butadiene	<b>GBZ 2.1 (China, 7/2024)</b> PC-TWA 8 hours: 5 mg/m <sup>3</sup> . <b>ACGIH TLV (United States, 1/2024)</b> TWA 8 hours: 2 ppm. TWA 8 hours: 4.4 mg/m <sup>3</sup> .
isobutylene	<b>ACGIH TLV (United States, 1/2024)</b> TWA 8 hours: 250 ppm.
but-1-ene	<b>ACGIH TLV (United States, 1/2024) [Butenes]</b> TWA 8 hours: 250 ppm.
butene, mixed-1-and-2-isomers	<b>ACGIH TLV (United States, 1/2024) [Butenes]</b> TWA 8 hours: 250 ppm.
butane	<b>ACGIH TLV (United States, 1/2024) [Butane]</b> Explosive potential. STEL 15 minutes: 1000 ppm.
isobutane (containing ≥ 0.1 % butadiene (203-450-8))	<b>ACGIH TLV (United States, 1/2024) [Butane]</b> Explosive potential. STEL 15 minutes: 1000 ppm.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

#### Biological exposure indices

Ingredient name	Exposure indices
1,3-butadiene	<b>GBZ 2.1 (China, 11/2022)</b> BEI: 2.9 mg/g Cr, 1,2-bis-hydroxy-4-(N-acetylcysteine) butane (DHBMA) [in urine]. Sampling time: end of work 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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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## Section 8. Exposure controls/personal protection

**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: safety glasses with side-shields. Face shield.

### 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. If contact with the liquid is possible, insulated gloves suitable for low temperatures should be worn. If product is hot, thermally protective, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves. 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. If product is hot, thermally protective, chemical resistant apron and long sleeves are recommended. 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 and physical state

**Physical state** : Gas. [Compressed or Liquefied]  
**Colour** : Colourless  
**Odour** : Aromatic  
**Odour threshold** : Not available.  
**pH** : Not applicable.  
**Melting point/freezing point** : -234°C (-389.2°F) [In-house method ,]

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## Section 9. Physical and chemical properties

<b>Boiling point or initial boiling point and boiling range</b>	: 131.1°C (268°F) [In-house method ,]
<b>Flash point</b>	: Closed cup: -69.4°C (-92.9°F) [ASTM D-56]
<b>Evaporation rate</b>	: Not available.
<b>Flammability</b>	: Flammable gases - Category 1
<b>Lower and upper explosion limit/flammability limit</b>	: Lower: 1.6% [In-house method ,] Upper: 12%
<b>Vapour pressure</b>	: 3160.01 mm Hg [20 °C] [In-house method ,]
<b>Relative vapour density</b>	: 1.9 [Air = 1] [In-house method ,]
<b>Relative density</b>	: 0.61
<b>Solubility in water</b>	: Negligible
<b>Partition coefficient: n-octanol/water</b>	: 2.09 to 2.31 [In-house method ,]
<b>Auto-ignition temperature</b>	: 364 to 413°C (687.2 to 775.4°F) [In-house method ,]
<b>Decomposition temperature</b>	: Not available.
<b>Viscosity</b>	: 0.2 cSt [-18 °C] [In-house method ,]
<b>Particle characteristics</b>	
<b>Median particle size</b>	: Not applicable.
<b>Pour point</b>	: -185 to -105.5°C [In-house method ,]

## 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 pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow gas to accumulate in low or confined areas. See Footnote
<b>Incompatible materials</b>	: Strong oxidisers Excessive heat. Air
<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
hydrocarbons,c4, ethylene-manuf.-by-product	<b>Rat - Inhalation - LC50 Gas.</b> >5800 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. No end point data for material.
<b>Oral</b>	: Minimally Toxic. No end point data for material.

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## Section 11. Toxicological information

### Irritation/Corrosion

#### Conclusion/Summary

- Skin** : Negligible irritation to skin at ambient temperatures. 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. No end point data for material.
- Respiratory** : Not expected to be a respiratory sensitizer. No end point data for material.

### Germ Cell Mutagenicity

#### Conclusion/Summary

- : May cause genetic defects. Data available. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 471 473 474 476 478 482

### Carcinogenicity

#### Conclusion/Summary

- : May cause cancer. Data available. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 453

### Classification

Product/ingredient name	IARC
1,3-butadiene	1

### Reproductive toxicity

#### Conclusion/Summary

- : Not expected to be a reproductive toxicant. Data available. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 414 421 422

### Specific target organ toxicity (single exposure)

#### Conclusion/Summary

- : Not expected to cause organ damage from a single exposure. No end point data for material.

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Target organs
hydrocarbons,c4, ethylene-manuf.-by-product	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 407 422 453

### Aspiration hazard

#### Conclusion/Summary

- : Not expected to be an aspiration hazard. 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.

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## Section 11. Toxicological information

**Product** : Vapour concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects. Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels. 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.

## 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** : Not expected to be harmful to aquatic organisms.  
**Chronic toxicity** : Not expected to demonstrate chronic toxicity to aquatic organisms

### Persistence and degradability

**Photolysis** : 0.161 day data for similar materials (s)  
**Hydrolysis** : Material -- Transformation due to hydrolysis not expected to be significant.  
**Photolysis** : Material -- Transformation due to photolysis not expected to be significant.  
**Atmospheric Oxidation** : Material -- Expected to degrade rapidly in air

### Bioaccumulation/Accumulation

**Conclusion/Summary** : Material -- Potential to bioaccumulate is low.

### Mobility in soil

**Mobility** : Material -- 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 minimised 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.

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,

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## Section 13. Disposal considerations

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

	JT/T617	IMDG	IATA
<b>UN number</b>	UN1010	UN1010	UN1010
<b>UN proper shipping name</b>	BUTADIENES AND HYDROCARBON MIXTURE, STABILIZED	BUTADIENES AND HYDROCARBON MIXTURE, STABILIZED	Butadienes and hydrocarbon mixture, stabilized
<b>Transport hazard class(es)</b>	2	2.1	2.1
<b>Label(s) / Mark(s)</b>			
<b>Packing group</b>	-	-	-
<b>Environmental hazards</b>	No.	No.	No.

### Additional information

#### IMDG

: **Emergency schedules** F-D, S-U  
**Special provisions** 386

#### IATA

: **Quantity limitation** Passenger and Cargo Aircraft: Forbidden. Packaging instructions: Forbidden. Cargo Aircraft Only: 150 kg. Packaging instructions: 200. Limited Quantities - Passenger Aircraft: Forbidden. Packaging instructions: Forbidden.  
**Special provisions** A1, A209

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### Extinguishing media

**Suitable extinguishing media** : Use water fog, dry chemical or carbon dioxide (CO2) to extinguish flames.

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

**Incompatible materials** : Strong oxidisers Excessive heat. Air

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

The hazard classification for this material is in accordance with national standard GB30000 series of Specification/Rules for classification and labeling of chemicals

[Refer to below China regulations \(if applicable\):](#)

The General Rules for preparation of precautionary label for Chemicals (GB 15258-2009)

Regulations on the Safe Management of Hazardous Chemicals

Measures for the Environmental Management Registration of New Chemical Substances

### Inventory list

<b>Product name</b>	CRUDE C4s (STEAM CRACKED)	<b>SDS Number:</b>	1149287
<b>Date of revision</b>	29 July 2025	<b>Version</b>	3
<b>First issue date</b>	23 November 2023		

## Section 15. Regulatory information

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

## Section 16. Other information

### History

**Date of issue/Date of revision** : 29 July 2025

**Date of previous issue** : 10 April 2025

**Version** : 3

**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** : 1149287

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