

Safety Data Sheet

Substance: Map-Pro

Stand: 10.06.2024 / Rev.-Nr. 02

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade name: Item No.: MAP Pro

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Hand Torch Fuel
Uses advised against None known.

1.3 Details of the Supplier of the safety data sheet

Vijay Petrochem Private Limited.

Khasra.No. :2137/1750, 2139/1751, & 2169/1750, Syau industrial Area, Govindgarh – 303712, Jaipur, Rajasthan, India

1.4 Emergency telephone number

+91 96805-21212

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Flammable gases Category 1A H220 - Extremely flammable gas.
Gases under pressure Liquefied gas H280 - Contains gas under pressure; may explode if heated.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms



Signal word Danger

Hazard statements

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.

Precautionary statements

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.

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Response

P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381 In case of leakage, eliminate all ignition sources.

Storage

P410 + P403 Protect from sunlight. Store in a well-ventilated place.

Disposal

Not assigned.

Supplemental information on the label

None

2.3. Other hazards

May displace oxygen and cause rapid suffocation.
Contact with liquefied gas may cause frostbite.
This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

General information

Chemical name	%	CAS-No. / EC-No.	REACH	Index-No.	Notes
Propylene	99.5 - 100	115-07-1 204-062-1	01-2119447103-50-0325	601-011-00-9	
Classification: Flam. Gas 1A;H220, Press. Gas;H280					U

Impurities

Chemical name	%	CAS-No. / EC-No.	REACH	Index-No.	Notes
Propane	0 - 0.5	74-98-6 200-827-9	-	601-003-00-5	

List of abbreviations and symbols that may be used above

Note U (Table 3.1): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Composition comments

The full text for all H-statements is displayed in section 16.
Gas concentrations are in percent by volume.

4. FIRST AID MEASURES

General information

First aid personnel must be aware of own risk during rescue. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of 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.

Skin contact

Not likely, due to the form of the product. 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.

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Eye contact

Not likely, due to the form of the product. 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 promptly if symptoms persist or occur after washing.

Ingestion

This material is a gas under normal atmospheric conditions and ingestion is unlikely.
Map-Pro™, Pro-Max™ SDS Great Britain 909050 Version #: 02 Revision date: 10-June-2024 Issue date: 11-December-2023 2 / 9 Exposure to rapidly expanding gas or vapourizing liquid may cause frostbite ("cold burn"). 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 themselves.

4.2. Most important symptoms and effects, both acute and delayed

Exposure to rapidly expanding gas or vapourizing liquid may cause frostbite ("cold burn"). 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 themselves.

4.3. Indication of any immediate medical attention and special treatment needed

Exposure may aggravate pre-existing respiratory disorders. Provide general supportive measures and treat symptomatically.

5. FIRE FIGHTING MEASURES

General fire hazards:

Extremely flammable gas. Contents under pressure. Pressurised container may explode when exposed to heat or flame.

5.1. Extinguishing media Suitable extinguishing media

Dry chemical powder. Carbon dioxide (CO₂). Water fog. Foam.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Extremely flammable gas. May form explosive mixtures with air. Gas may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

Do not extinguish fires unless gas flow can be stopped safely; explosive re-ignition may occur. Promptly isolate the scene by removing all persons from the vicinity of the incident. No action shall be taken involving any personal risk or without suitable training. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. Stop flow of material. Use water to keep fire exposed containers cool and to protect personnel effecting shutoff. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop leak. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Cool containers exposed to flames with water until well after the fire is out.

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6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Evacuate the area promptly. Keep unnecessary personnel away. Wear appropriate personal protective equipment.

For emergency responders

No action shall be taken involving any personal risk or without suitable training. In the event of a leak evacuate all personnel until ventilation can restore oxygen concentrations to safe levels. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Wear appropriate protective equipment and clothing during clean-up.

6.2. Environmental precautions

Should not be released into the environment. Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Stop leak if you can do so without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

7.1. Precautions for safe Handling

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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. Do not breathe gas. 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.

7.2. Conditions for safe storage, including any incompatibilities

Do not store, incinerate, or heat this material above 120 degrees Fahrenheit. 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. Protect cylinders from damage. Stored containers should be periodically checked for general condition and leakage. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances Hazard categories in accordance with Regulation (EC) No 1272/2008 - P2 FLAMMABLE GASES (Lower-tier requirements = 10 tonnes; Upper-tier requirements = 50 tonnes)

ANNEX 1, PART 2 Named dangerous substances

- 18. Liquefied flammable gases, Category 1 or 2 (including LPG) and natural gas (Lower-tier requirements = 50 tonnes; Upper-tier requirements = 200 tonnes)

7.3. Specific end use(s)

Hand Torch Fuel. Observe industrial sector guidance on best practices.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Follow standard monitoring procedures.
Derived no effect levels (DNELs)	Not available.
Predicted no effect concentrations (PNECs)	Not available.
Exposure guidelines	Follow standard monitoring procedures.

8.2. Exposure controls

Appropriate engineering controls	Provide adequate ventilation and minimize the risk of inhalation of gas. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
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Individual protection measures, such as personal protective equipment

General information	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Wear approved safety glasses or goggles. Face shield is recommended. Eye protection should meet standard EN 166.
Skin protection	Wear suitable gloves tested to EN374. Wear cold insulating gloves.
Hand protection	
Other	
Respiratory protection	Wear protective clothing appropriate for the risk of exposure. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear positive pressure self-contained breathing apparatus (SCBA). WARNING! Air-purifying respirators do not protect workers in oxygen deficient atmospheres.
Thermal hazards	Contact with liquefied gas might cause frostbites, in some cases with tissue damage. Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Do not eat, drink or smoke when using the product. Wash thoroughly after handling. Provide eyewash station and safety shower. Handle in accordance with good industrial hygiene and safety practices.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

Physical state

Gas.

Form

Compressed liquefied gas.

Colour

Colourless.

Odour

Hydrocarbon or mercaptan if odorized.

Odour threshold

Property has not been measured.

pH

Not applicable, material is a gas.

Melting point/freezing point

-185 °C (-301 °F)

Initial boiling point and boiling range

-48 °C (-54.4 °F)

Flash point

-107.78 °C (-162 °F)

Evaporation rate

Property has not been measured.

Flammability (solid, gas)

Extremely flammable gas.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

2 %

Explosive limit – upper(%)

11 %

Vapour pressure

109.73 psig (21 °C (69.8 °F))

Vapour density

Property has not been measured.

Relative density

1.5 (gas) (Air=1) (20 °C (68 °F))

0.52 (liquid) (Water=1) (0 °C (32 °F))

Solubility(ies)

Solubility (water)

384 mg/l Slightly soluble in water.

Partition coefficient (n-octanol/water)

1.77

Auto-ignition temperature

497.22 °C (927 °F)

Decomposition temperature

Property has not been measured.

Viscosity

Not applicable, material is a gas.

Explosive properties

Not explosive.

Oxidising properties

Not oxidising.

9.2. Other information

Dynamic viscosity

0.08 mPa.s (16.7 °C (62.06 °F))

Kinematic viscosity

Not applicable, material is a gas.

Limiting Oxygen Concentration (or LOC)

9.3 %

Molecular formula

C3-H6

Molecular weight

45 g/mol

Particle size

Not applicable, material is a gas.

Percent volatile

100 %

Specific gravity

1.5 (gas) (Air=1) (15 °C (59 °F))

0.52 (liquid)

Surface tension

16.7 mN/m (90 °C (194 °F))

VOC

100 % EPA estimated

10. STABILITY AND REACTIVITY

10.1. Reactivity

Reacts violently with strong oxidants, nitrites, inorganic chlorides, chlorites and perchlorates causing fire and explosion hazard.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Polymerization will not occur. May form explosive mixture with air. This product may react with oxidizing agents.

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10.4. Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

10.5. Incompatible materials

Strong oxidising agents. Strong acids. Halogens. Nitrates.

10.6. Hazardous decomposition products

Thermal decomposition of this product can generate carbon monoxide and carbon dioxide. Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

General information

Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation

High concentrations: Suffocation (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels. Breathing of high concentrations may cause dizziness, light-headedness, headache, nausea and loss of co-ordination. Continued inhalation may result in unconsciousness.

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

Exposure to rapidly expanding gas or vapourizing liquid may cause frostbite ("cold burn"). 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 themselves.

11.1. Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Toxicological data

Impurities	Species	Test Results
Propane (CAS 74-98-6) Acute Inhalation Gas LC50	Rat	> 80000 ppm, 15 Minutes
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.	
Respiratory sensitisation	Based on available data, the classification criteria are not met.	
Skin sensitisation	Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Carcinogenicity	Based on available data, the classification criteria are not met.	

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IARC Monographs. Overall Evaluation of Carcinogenicity	
Propylene (CAS 115-07-1)	3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity – single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Not relevant, due to the form of the product.
Mixture versus substance information	No information available.
Other information	Exposure over a long period of time may cause central nervous system effects.
12. ECOLOGICAL INFORMATION	
12.1. Toxicity	The product is not expected to be hazardous to the environment.
12.2. Persistence and degradability	Not relevant, due to the form of the product.
12.3. Bioaccumulative potential	Not relevant, due to the form of the product.
Partition coefficient n-octanol/water (log Kow)	1.77
Propylene (CAS 115-07-1)	
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	Not relevant, due to the form of the product.
12.5. Results of PBT and vPvB assessment	This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.
12.6. Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.
Substance Global Warming Potential per (Annex IV), Regulation 517/2014/EU on fluorinated greenhouse gases, as amended	
Propane (CAS 74 98-6)	3
Propylene (CAS 115 07-1)	2
13. DISPOSAL CONSIDERATIONS	
13.1. Waste treatment methods	
Residual waste	Dispose in accordance with all applicable regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	16 05 04* The waste code should be assigned in discussion between the user, the producer and the waste disposal company. The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

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Disposal methods/information	Use the container until empty. Do not dispose of any non-empty container. Empty containers have residual vapor that is flammable and explosive. Cylinders should be emptied and returned to a hazardous waste collection point. Do not puncture or incinerate even when empty. Dispose in accordance with all applicable regulations.
Special precautions	Dispose of in accordance with local regulations.
14. TRANSPORT INFORMATION	
ADR	
14.1. UN number	UN1077
14.2. UN proper shipping name	PROPYLENE
14.3. Transport hazard class(es)	
Class	2.1
Subsidiary hazard	-
Label(s)	2.1
Hazard No. (ADR)	23
Tunnel restriction code	B/D
14.4. Packing group	-
14.5. Environmental hazards	No
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
RID	
14.1. UN number	UN1077
14.2. UN proper shipping name	PROPYLENE
14.3. Transport hazard class(es)	
Class	2.1
Subsidiary hazard	-
Label(s)	2.1 (+13)
14.4. Packing group	-
14.5. Environmental hazards	No
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
ADN	
14.1. UN number	UN1077
14.2. UN proper shipping name	PROPYLENE
14.3. Transport hazard class(es)	
Class	2.1
Subsidiary hazard	-
Label(s)	2.1
14.4. Packing group	-
14.5. Environmental hazards	No
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
IATA	
14.1. UN number	UN1077
14.2. UN proper shipping name	Propylene
14.3. Transport hazard class(es)	
Class	2.1
Subsidiary hazard	-
Label(s)	2.1
14.4. Packing group	-
14.5. Environmental hazards	No
ERG Code	10L
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

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IMDG	
14.1. UN number	UN1077
14.2. UN proper shipping name	PROPYLENE
14.3. Transport hazard class(es)	
Class	2.1
Subsidiary hazard	-
14.4. Packing group	-
14.5. Environmental hazards	
Marine pollutant	No
EmS	F-D, S-U
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
15. REGULATORY INFORMATION	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
Retained direct EU regulations	
Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.	
Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended Not listed.	
Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.	
Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.	
Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.	
Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.	
Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.	
Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.	
Authorisations	
Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended Not listed.	
Restrictions on use	
Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered Propylene (CAS 115-07-1)	
Other EU regulations	
Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended	
ANNEX 1, PART 1 Categories of dangerous substances Hazard categories in accordance with Regulation (EC) No 1272/2008 - P2 FLAMMABLE GASES	
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Other regulations

This product is classified and labelled in accordance with the retained CLP Regulation (EC) No 1272/2008, as amended for Great Britain. This Safety Data Sheet is compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by REACH Regulations SI 2019/758.

Use of this product by young persons under the age of 18 is not allowed in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended. Follow the requirements of the Control of Substances Hazardous to Health Regulations 2002 [SI 2002/2677], as amended, when using this material.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

16. OTHER INFORMATION

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit.

TWA: Time Weighted Average.

vPvB: Very persistent and very bioaccumulative.

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

ECHA: European Chemical Agency.

EPA: AQUIRE database

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity

National Toxicology Program (NTP) Report on Carcinogens

NLM: Hazardous Substances Data Base

References

Information on evaluation method leading to the classification of mixture

Not applicable. The product is a substance

Full text of any statements, which are not written out in full under sections 2 to 15

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

Training information

Follow training instructions when handling this material.

Disclaimer

All information in this Safety Data Sheet is believed to be accurate and reliable. However, no guarantee or warranty of any kind is made with regard to the accuracy of information or the suitability of the recommendations contained herein. It is the user's responsibility to assess the safety and toxicity of this product under their own conditions of use and to comply with all applicable laws and regulations.

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