

Material safety data sheet

Product

PROPANE

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Version : 3

Date : 04/03/2003

Supersedes : 28/08/2000

01 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : PROPANE
Recommended uses : Aerosol jet / Blowing agent / Condenser / Lighter fuel
Name : AVANTEC SA
Address : 20, Rue de bourgogne
BP 211
69802 SAINT-PRIEST cedex
Telephone number : 04 72 28 13 00
Telefax number : 04 72 28 13 41
Department to contact : Department Material Safety Data Sheets - TEL : 01 49 83 53 00
EMERGENCY TELEPHONE
NUMBER : INRS/ORFILA (France) : 33 1 45 42 59 59

02 COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE :
Common chemical name : PROPANE
CAS : 74-98-6
EINECS : 200-827-9

03 HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS :

Adverse human health effects : To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice

Physical and chemical hazards :

- Fire or explosion : Extremely flammable liquefied gas.
This gas is denser than air and may travel along the ground. Distance ignition possible.
Risk of explosion if heated in a confined system

Classification of the product : According to european regulations, this product is classified as :
- EXTREMELY FLAMMABLE

04 FIRST AID MEASURES

Inhalation : Move the affected person away from the contaminated area and into the fresh air
If the person feels unwell :
Call a doctor immediately
Skin contact : In the event of contact with the liquid: treat resulting frostbite as a burn
Immediately remove contaminated clothing or footwear
Immediately rinse with plenty of water
If skin burns appear, call a doctor immediately
Eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum)

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Ingestion : Consult an eye specialist immediately, even if there are no immediate symptoms.
Protection of first-aiders : Not specifically applicable (gas).
Do not enter without an appropriate protective equipment
- self-contained breathing apparatus
- protective clothing

05 FIRE FIGHTING MEASURES

Suitable extinguishing media : For a minor fire :
Carbon dioxide (CO2)
Powders
For a significant fire :
Water spray
Specific hazards : Gas/air mixtures are explosive
The vapours are denser than air and may travel along the ground. Distance ignition possible.
Specific fire fighting methods : Close the valve if possible
Cool down the containers exposed to heat with a water spray
Do not attempt to fight the fire without suitable protective equipment
Protection of fire-fighters : Self-contained breathing apparatus
Impermeable protective equipment

06 ACCIDENTAL RELEASE MEASURES

Personal precautions : Stop the leak.
Evacuate the danger area.
Only qualified personnel equipped with suitable protective equipment may intervene.
Remove all sources of ignition
Prevent the product from entering cellars, basements or pits.
Prevent the product from entering drains (risk of explosion)
Mechanically ventilate the spillage area.
Environmental precautions : Control the vapours with a fine water spray

07 HANDLING AND STORAGE

HANDLING

Technical measures : Ventilation
Material and equipment suitable for use under explosive conditions.
Use non-sparking tools
Precautions : Smoking is forbidden
Avoid the build-up of electrostatic charge
Work in a well-ventilated area

STORAGE

Storage conditions :
- Recommended : Store :
- in a cool, well-ventilated area
- away from any source of ignition

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Incompatible products :
Strong bases
Strong oxidizing agents
Oxidizing materials

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures : Ensure good ventilation of the work station
Personal protective equipment :
- Respiratory protection : In the event of insufficient ventilation:
Self-contained breathing apparatus.
- Hand protection : Antistatic gloves.
- Eye protection : Safety spectacles
- Skin and body protection : Antistatic clothing.

09 PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Compressed liquefied gas
Colour : colourless
Odour : none to slight
pH : Not applicable
Specific temperatures :
- Melting : - 187 °C
- Boiling : - 43 °C
Flammability characteristics :
- Flash point : -105 °C
- Auto-ignition temperature : 450 °C
Explosion properties :
- Lower : 1.8 % (volume)
- Upper : 9.5 % (volume)
Vapour pressure : 750 kPa, at 20°C.
Vapour density (air = 1) : 2.05.
Solubility :
- in water : Very slightly soluble.
- in organic solvents : Soluble in :
- alcohols
- ethers.
- benzene.
- chloroform.

10 STABILITY AND REACTIVITY

Stability : Stable at ambient temperature and under normal conditions of use
Hazardous reactions :
- Conditions to avoid : May explode or ignite :
- on heating
- Materials to avoid : - strong bases
- strong oxidizing agents

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- Hazardous decomposition products :

On thermal decomposition (pyrolysis), releases :
Carbon oxides (CO, CO₂)

11 TOXICOLOGICAL INFORMATION

Acute toxicity :

Asphyxiating

Acute symptoms :

Headaches
Nausea
Vomiting
Cardiac disorders
Central Nervous System depressant
Convulsions.
Coma

Local effects :

Contact with liquefied gas causes frostbite.
Contact with liquefied gas may cause severe ocular lesions

12 ECOLOGICAL INFORMATION

No data available

13 DISPOSAL CONSIDERATIONS

CONTAMINATED PACKAGING :

Destruction/Disposal :

Dispose of at an licensed site

NOTE :

The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal

14 TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS :

UN number :

1978 - PROPANE

Land :

- Rail/road (RID/ADR) :

Class : 2
Classification code : 2F
Packaging group : -
Labelling : 2.1
Hazard identification number : 23

Sea (IMO/IMDG) :

Class : 2.1
Packaging group : -
Labelling : 2.1

Air (ICAO-IATA) :

Class : 2.1
Packing group : -
Labelling : 2.1
Passenger aircraft : FORBIDDEN

NOTE :

The above regulatory prescriptions are those valid on the date of publication of this sheet
However, given the possible evolution of transport regulations for hazardous materials, in case the present sheet is dating back to more than

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12 months ago, it would be advisable to check their validity with your commercial agency

15 REGULATORY INFORMATION

EC LABELLING :

Mandatory labelling (self-classification) of hazardous substances : applicable

Identification of the hazardous product :

Appears on the EC hazardous substances list (Annex 1 of the modified EEC directive 67/548/EEC). EC N° : 200-827-9
Propane

- Symbols and danger information :

- EXTREMELY FLAMMABLE (F+)

- R phrases :

R 12: Extremely flammable.

- S phrases :

S 9 : Keep container in a well-ventilated place.

S 16 : Keep away from sources of ignition - No smoking

S 33: Take precautionary measures against static discharges.

NOTE :

The regulatory information given in this part only indicate the principal regulations specifically applicable to the product described in the Safety Data Sheet.

The cited basic Community texts are being updated and transcribed in national law.

Refer to all applicable national, international and local regulations or provisions.

The user's attention is drawn to the possible existence of additional provisions which complete these regulations.

16 OTHER INFORMATION

Further information:

Product for industrial use only

For more information regarding the use of this product, please refer to our technical information or contact the sales department in your region.

* Update :

This sheet was updated (refer to the date at the top of this page)

The amended headings are indicated by an asterisk (*)

This sheet completes the technical sheets but it does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith.
The attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended.

This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

The mandatory regulations mentioned are only intended to help the user to fulfil his obligations regarding the use of hazardous products.

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This listing must not be considered exhaustive. It does not exonerate the user from ensuring that other legal obligations than those mentioned do not exist, relating to the use and storage of the product for which he solely is responsible.

End of document.

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