

SAFETY DATA SHEET

Product:

HARP® Cyclopentane

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Revision: 2.2

Date: 04/08

01 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

PRODUCT NAME

HARP® Cyclopentane

SUPPLIER

Harp International Limited

Gellihirion Industrial Estate

Pontypridd

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United Kingdom

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02 - HAZARDS IDENTIFICATION

HAZARDS DESIGNATION

R11– Highly flammable.

R52/R53 - Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

03 - COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT TRIVIAL NAME

HARP® Cyclopentane

CAS NUMBER

287-92-3 cyclopentane

EINECS NUMBER

206-016-6

EC Number:

601-030-00-2

04 - FIRST AID MEASURES

INHALATION

Remove victim to well ventilated area. Keep victim warm and rested. If breathing stops or shows signs of failing, apply artificial respiration. Obtain medical attention.

SKIN CONTACT

Product is not skin irritating..

EYE CONTACT

Flush eye immediately with large amounts of water. If irritation persists, seek medical advice.

INGESTION

Do not induce vomiting. Keep at rest. Obtain medical attention.

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05 - FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA	-
SMALL FIRES	CO ₂ , extinguishing powder or water spray.
LARGE FIRES	Water spray or alcohol resistant foam.
UNSUITABLE EXTINGUISHING MEDIA	Do not use water jet.
PROTECTIVE EQUIPMENT FOR FIREFIGHTERS	Fire fighters should wear self-contained breathing apparatus, chemical goggles, loose gloves and safety suit including hood.

06 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear protective foot ware, clothing and hand and eye protection. Keep unprotected persons away.
ENVIRONMENTAL PRECAUTIONS	Do not allow product to reach sewage systems or water bodies. Prevent product from reaching sewage system, holes and cellars.
SPILLAGES	Inform respective authorities in case of product reaching water or sewage system. Absorb or contain liquid with sand, earth or spill control material (e.g. diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

07 - HANDLING AND STORAGE

HANDLING	Keep containers tightly sealed. Store in a cool dry place.
PROTECTION AGAINST FIRE/IGNITION/EXPLOSION	Keep away from sources of ignition – Do Not Smoke. Protect against electrostatic discharge.
STORAGE	Keep container tightly closed in a well ventilated space. Keep away from direct sunlight and other sources of heat and ignition. Do not smoke in storage areas. Open slowly in order to control possible pressure release. Do not pressurise, cut, heat or weld containers. Empty product containers may contain product residue, do not reuse empty containers without commercial cleaning.

08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL RESPIRATORY PROTECTION	Wash hands during breaks and whenever finished working with the material. Exposure to this material may be controlled in a number of ways: Use only in a well ventilated area. Mechanical ventilation is recommended in product is used in a confined space. Use explosion proof ventilation equipment.
HAND PROTECTION	If risk of vapour inhalation is present, use breathing apparatus.
EYE PROTECTION	Use glove material that is impermeable and resistant to the product.
BODY PROTECTION	Safety glasses. Safety shoes or boots, chemical resistant standard issue work clothing.

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09 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid.
COLOUR	Colourless.
ODOUR	Mild paraffinic.
MELTING RANGE/POINT	-93.3°C
BOILING RANGE/POINT	Between 47°C and 51°C
FLASH POINT	< -35.0°C
IGNITION TEMPERATURE	380°C
FLAMMABILITY LIMITS	1.3 to 8.0 vol. % in air
LIQUID DENSITY	(15°C): 0.750 g/cm ³
VISCOSITY	0.44 mPa (dynamic at 20°C)
SOLUBILITY/MISCIBILITY WITH WATER	Not miscible or difficult to mix.

10 - STABILITY AND REACTIVITY

STABILITY	Stable under normal conditions. No unusual reactivity.
CONDITIONS TO AVOID	High temperatures. Static discharges. Flames and sparks.
HAZARDOUS DECOMPOSITION PRODUCTS	None.

11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	-
PRIMARY IRRITANT EFFECT	Skin: No irritant effect Eye: No irritant effect Sensitization: No sensitising effect known

12 - ECOLOGICAL INFORMATION

GENERAL	Water hazard Class 1 (Assessment by list). Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
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13 - DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT	Do not dispose along with household waste. Do not allow product to reach water courses or sewage system.
DISPOSAL OF CONTAINERS	Disposal of un-cleaned packaging must be made in accordance with official local Regulations.

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14 - TRANSPORTATION

UN NUMBER	1146
LAND TRANSPORTATION	-
UN Number	1146
ADR/RID -GGVS/E CLASS	3 Flammable liquids
Kemler Number	33
Packaging group	II
Label	3
Designation of goods	1146 CYCLOPENTANE
MARITIME TRANSPORT	-
IMDG/GGV Sea Class:	3
UN Number	1146
Label	3
Packaging group	II
EMS Number	F-E, S-D
Correct technical name	CYCLOPENTANE
AIR TRANSPORTATION	-
ICAO/IATA Class	3
UN/ID Number	1146
Label	3
Packaging group	II
Correct technical name	CYCLOPENTANE

15 - REGULATORY INFORMATION

DESIGNATION ACCORDING TO EC GUIDELINES	-
CODE LETTER AND HAZRAD DESIGNATION	F - Highly flammable
RISK PHRASES	R11 - Highly flammable R52/R53 – Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment.
SAFETY PHRASES	S2 - Keep Out of reach of children. S9 - Keep container in a well ventilated place. S16 - Keep away from sources of ignition. – No smoking. S29 - Do not empty into drains. S33 - Take precautions to avoid static discharge. S61 - Avoid release to the environment. Refer to special instruction/safety data sheets.
WATER HAZARD CLASS	Water hazard Class 1 (Assessment by list): slightly hazardous to water.

16 - OTHER INFORMATION

RECOMMENDED USES	Aerosol propellant. Foam blowing agent.
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NOTE

This information contained within this safety data sheet applies only to the Harp International Limited product to which it relates. The information provided is based upon our best knowledge at the time that this safety data sheet was published.

The information is believed to be accurate and is given in all good faith.

When used in other preparations, in formulations or in mixtures, it is necessary to ascertain if the classification of the hazards have changed. The attention of users is drawn to the possibility of creating other hazards when the product is used for purposes other than that for which it is recommended. In such cases a complete reassessment should be made by user.

This safety data sheet should only be used and reproduced in order that the necessary measures may be taken relating to the protection of health and safety at work and relating to the protection of environment.

The reference to the legislative, regulatory and codes of practice documents must not be considered as exhaustive.

It is the responsibility of handlers of the product to pass on the totality of the information contained within this document to any subsequent persons who will come into contact with, handle or use the product in any way.

They should check the adequacy of the information contained in the safety data sheet received before passing it onto their customers.

End of document