



SAFETY DATA SHEET

GLYCEROL

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME: GLYCEROL

PRODUCT NO: RM116

SYNONYMS, TRADE NAMES: 1,2,3 – PROPANETRION; GLYCERINE

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EMERGENCY CONTACT NUMBER:

HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Not classified as hazardous for supply

LABEL ELEMENTS

Hazard phrases

Not classified

PRECAUTIONARY PHRASES

Wear protective gloves/protective clothing, eye/face protection

RISK PHRASES

Not applicable

SAFETY PHRASES

Wear suitable protective clothing, eye/ face protection and gloves

OTHER HAZARDS

Mildly irritating to eyes

3 COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURES

1, 2, 3- propanetriol, Glycerine
Concentration: >98%
CAS Number: 56-81-5
EC Number: 200-289-5

R/H Phrases:

Symbols:

4 FIRST - AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

IF ON SKIN

Wash with plenty of soap and water

IF SUBSTANCE HAS GOT INTO EYES

Immediately wash out with plenty of water

INHALATION is unlikely to occur

If swallowed rinse mouth with water (only if the person is conscious)

Give 200-300mls (half a pint) water to drink

Induce vomiting (only if patient is conscious)

IF SWALLOWED

Immediately call a POISON CENTER or doctor/ physician.

Most important symptoms and effects, both acute and delayed

May cause irritation

Indication of any immediate medical attention and special treatment needed

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

In case of fire use water spray or fog, alcohol resistant foam dry chemical or carbon dioxide

Unsuitable extinguishing media – High Volume Water Jet

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Material is combustible

ADVICE FOR FIREFIGHTERS

Wear Breathing Apparatus

Wear full protective clothing including chemical protection suit

Use water spray to keep fire exposed containers cool and disperse vapours.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear protective clothing as per section 8

ENVIRONMENT PRECAUTIONS

Do not allow to enter public sewers and watercourses

METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP

Absorb spillage in earth or sand

Dispose of the collected material according to regulations.

REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling

See Section 8 for information on personal protective equipment.

7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

The usual precautions for handling chemicals should be observed

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep away from alkalis (strong bases)

Keep away from strong acids

Keep away from oxidisers, heat flames or ignition sources

Specific end use(s)
See Section 1

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

Non Hazardous

EXPOSURE CONTROLS

Protective gloves, safety glasses and appropriate skin protection should be worn when

Handling

OCCUPATIONAL EXPOSURE CONTROLS

Wear suitable protective clothing, eye/face protection

9 PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

ODOUR	Odourless
APPEARANCE	Colourless to light yellow liquid
BOILING POINT	290 deg C
VAPOUR PRESSURE	<0.001 hPa at 20 deg C
VAPOUR DENSITY	(air =1) 3.17
MELTING POINT	18 deg C
COMPLETELY SOLUBLE IN WATER	
RELATIVE DENSITY	1.2619 at 20 deg C
FLASH POINT	>199 deg C
LOWER FLAMMABILITY LIMIT	2.6% (in air)
UPPER FLAMMABILITY LIMIT	11.3% (in air)
AUTO- IGNITION TEMPERATURE	370 deg C
VISCOSITY 1150 mPa.s at	20 deg C

OTHER INFORMATION

10 STABILITY AND REACTIVITY

REACTIVITY

Stable under normal temperature conditions and recommended use

CHEMICAL STABILITY

Stable at normal temperature conditions and recommended use.

Hygroscopic

POSSIBILITY OF HAZARDOUS REACTIONS

None under normal processing

Vapours may ignite

CONDITIONS TO AVOID

Avoid contact with oxidising substances

Avoid contact with strong acids

Avoid contact with alkalis (strong bases)

INCOMPATIBLE MATERIALS

Incompatible with strong oxidizing substances

Incompatible with strong acids

Incompatible with alkalis (strong bases)

HAZARDOUS DECOMPOSITION PRODUCTS

Decomposition products may include carbon oxides

11 TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

LD50 (oral) 12600 mg/kg

LD50 (skin, rabbit) >1000 mg/kg

INHALATION

May cause irritation

CONTACT WITH SKIN

Not Hazardous

CONTACT WITH EYES

May cause irritation

INGESTION

Not classified as hazardous but the ingestion of significant quantities should be referred to a Physician.

CARCINOGENICITY

No evidence of carcinogenic effects

TERATOGENICITY

No evidence of reproductive effects

MUTAGENICITY

No evidence of mutagenic effects

No evidence of reproductive effects

12 ECOLOGICAL INFORMATION

TOXICITY

LC50 (fish) 54000 mg/l (96hr)

EC50 (daphnia) >1000 mg/l (24hr)

On available data, substance is not harmful to aquatic life

PERSISTENCE AND DEGRADABLE

Readily biodegradable

BIOACCUMULATION POTENTIAL

Bioaccumulation is insignificant

MOBILITY IN SOIL

Completely soluble in water

RESULTS OF PBT AND vPvB ASSESSMENT

Not a PBT according to REACH Annex XIII

OTHER ADVERSE EFFECTS

On available data, substance is not harmful to the environment

13 DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

Incineration by an approved method could be considered

Disposal should be in accordance with local, state or national legislation

14 TRANSPORT INFORMATION

UN Number
UN Proper Shipping Name
Transport hazard class (es)
Packing group
Environmental hazards
Special precautions for user
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
EMERGENCY ACTION CODE
Proper Shipping Name:
EAC:
ROAD/RAIL (ADR/RID)
Proper Shipping Name
ADR UN No:
ADR Hazard Class
ADR Item No:
ARD/RID No:
Tremcard:
Tunnel Code:
SEA (IMDG)
Proper Shipping Name:
IMDG UN No:
IMDG Hazard Class
IMDG Page No:
IMDG Pack Group:
IMDG EmS:
IMDG MFAG:
AIR (ICAO/IATA)
Proper Shipping Name:
ICAO UN No:
ICAO Hazard Class:
ICAO Packing Group:
DOT/CFR (US DEPARTMENT OF TRANSPORTATION)
DOT Proper Shipping Name
Hazardous Material
Hazard Class
Identification Number:
Product RQ (lbs)

15 REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE
Not Hazardous according to current ADR Regulations
INVENTORIES: EINECS, TSCA, AICS, DSL, ENCS, KECI, PICCS, IECSC – ALL
Conformed to
Chemical Safety Assessment

16 OTHER INFORMATION

DISCLAIMER

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this SDS is to the best of JML's knowledge correct at the time of publication. However, no guarantee is given to its accuracy, reliability or completeness and the information may not be valid if the product is used in combination with other materials or process. It is the responsibility of the user to ensure that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulatory requirements.