

Reg. CE 1907/2006

Version: 9/2016

Revision date: February 2016 Previous version: October 2015

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 PRODUCT IDENTIFIER

Chemical name 1,2,3-PROPANE-TRIOL

Commercial nome GLYCERINE 99,5% Pharma

Other identification Glycerol

REACH registration number

The substance is exempted from registration according

Annex V p.t 9 of REACH Regulation 1907/2006.

C.A.S. Registry Number 56-81-5

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE AND USES ADVISED AGAINST

Pharmaceutical industry, Cosmetic and personal care product, food and beveragesproducts, tobacco, polyurethane product and paints

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company AMBROGIO PAGANI S.p.a.

Adress Via Cascinello, 9 - 24126 BERGAMO – ITALIA

Phone N° 0039-035310074 Fax N° 0039 - 035317168

Responsible department e-mail: info@ambrogio-pagani.it

1.4 EMERGENCY TELEPHONE NUMBER

Company phone number +39 035310074

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 LABEL ELEMENTS

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 OTHER HAZARDS

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

Synonyms 1,2,3-propane-triol

Glycerol, Glycerine

E.IN.E.C.S. number 200-289-5

GLYCERINE Pag. 1 di 7



Reg. CE 1907/2006

E.IN.E.C.S. name 1,2,3-Propane-triol

Molecular weight 92

3.2 IMPURITIES, ADDITIVES None

4. FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Inhalation If breathed in, move person into fresh air. If not

breathing give artificial respiration. Consult a physician.

Skin contact wash off with soap and plenty of water, Consult a

physician

Eyes contact rinse thoroughly with plenty of water for at least 15 min,

Consult a physician.

Ingestion Never give anything by mouth to unconscious person.

Rinse mouth with water. Consult a physician

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No informations avalaible

5. FIRE-FIGHTING MEASURES

5.1 EXTINGUISH MEDIA

Suitable extinguish media

Use water spray, alcohol-resistant foam, dry chemical

or carbon dioxide.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE

Carbon oxides

5.3 ADVICE FOR FIRE-FIGHTERS

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by wearing suitable protective clothing. Suppress gas/vapours/mists with a water spray jet. Prevent fire-extinguishing water from contaminating surface water or the ground water system.

5.4 FURTHER INFORMATIONS

No informations avalaible

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPEMENT AND EMERGENCY PROCEDURES

Advice for non-emergency personnel: do not breathe vapours/mist/gas, ensure adequate ventilation. Evacuate the danger area and observe emergency procedures. Advice for emergency responders: Protective equipment, see section 8.

6.2 ENVIRONMENTAL PRECAUTIONS

Keep out of sewers, drains, surface and ground water

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

GLYCERINE Pag. 2 di 7



Reg. CE 1907/2006

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

REFERENCES TO OTHER SECTION

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Normal precautions for non-hazardous, avoid contact with skin and eyes, avoid inhalation of vapour or mists.

7.2 CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES

Hygroscopic product: Store in cool place. Keep container tightly closed in a dry and wellventilated place.

SPECIFIC END USES 7.3

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. **EXPOSURE CONTROLS-PERSONAL PROTECTION**

CONTROL PARAMETERS 8.1

No components with workplace control parameters

EXPOSURE CONTROLS 8.2

APPROPRIATE ENGINEERING CONTROLS

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Individual protection measure

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Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard

EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government

standards such as NIOSH (US) or CEN (EU).

working clothing, The type of protective equipment must be selected according to the concentration and amount of the

dangerous substance at the specific workplace.

Skin and body protection

Respiratory protection

Body protection

GLYCERINE



Reg. CE 1907/2006

PHYSICAL AND CHEMICAL PROPERTIES 9.

9.1 INFORMATIONS ON BASIC' PHYSICAL AND CHEMICAL PROPERTIES

Physical form at r.t. Liquid **Appearance** liquid

Colour Colourless Odour Odourless

Odour threshold No data available

pН 5-8 at 100 g/l (20° C)

Melting point 18° C

Boling point 290°C (760 mmHg) - 160 °C (10 mbar)

199°C Pensky Martens closed cup method Flash point

177° C Cleveland open cup method

Evaporation rate No data available

3-19% **Flammability**

Lower expolsion limit 2,7% (V) at 1013 hPa

Upper explosion limit 19% (V) at 1013 hPa <0.0001 kPa at 20° C

Vapour pressure Surface Tension (20°C) 63.4 mN/m at 20° C

Relative vapour density 3.18 - (Air = 1.0)

Density at 20°C 1.261 a/cm³

Solubility in water soluble

Partition Coefficient: n-octanol/

Log Pow = -1.75water

Autoignition Temperature 370°C

Decomposition temp. ca. 200°C

Viscosity (20°C) 1412 mPa.s

No data available **Explosive Properties**

Oxidizing Properties No data available

9.2 No data available **OTHER DATA**

10. STABILITY AND REACTIVITY

10.1 REACTIVITY No data available

10.2 CHEMICAL STABILITY Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS 10.3

No data available REACTION

10.4 CONDITIONS TO AVOID No data available

GLYCERINE Pag. 4 di 7



Reg. CE 1907/2006

10.5 INCOMPATIBLE MATERIALS Strong oxidizing agents, strong bases

HAZARDOUS DECOMPOSITION 10.6 No data available **PRODUCTS**

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute Toxicity LD50/rat = 18300 mg/kg

LD50 dermal – guinea pigs = 45 ml/kg

Skin corrosion/irritation Non irritating Serious eye damage/eye irritation Non irritating

Respiratory or skin sensitisation No data available

Germ cell mutagenicity Negative

Studies in animals have shown that repeated doses Carcinogenity

produce no carcinogenic effects. This material is not

listed as carcinogen by OSHA, IARC, NTP.

A multigeneration study in rats has shown that repeated high doses produce no adverse reproductive effects. A

study in animals has shown that repeated doses

produce no teratogenic effects.

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

Reproductive toxicity

No data available No data available

Aspiration hazard No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

12.5

Fish toxicity (LC50) LC50, (96 hours) 54000 mg/l

Daphnia toxicity (LC50) EC50, (24 hours) Daphnia Magna > 10000 mg/l

EC50, (8 gg) Scenedesmus > 10000 mg/l Algae toxicity

Bacteria toxicity (EC50) EC50, (16 hours) Pseudomonas Putida > 10000 mg/l

12.2 Persistence and degradability readily biodegradable >98% after 24 hours

BOD5 700 mgO2/l

COD 1160 mg/g substance

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil No data available

This substance/mixture contains no components considered

Results of PBT and vPvB to be either persistent, bioaccumulative and

assessment toxic (PBT), or very persistent and very bioaccumulative

(vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects No data available

GLYCERINE Pag. 5 di 7



Reg. CE 1907/2006

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATEMENT METHOD

ProductRe-use/recycling of waste highly recommended.

Disposal according to local and national regulations

In accordance with local and national regulations

Contaminated packaging

14. TRANSPORT INFORMATION

14.1 UN number

**' ADR RID: - IMDG: - IATA: -

ADR: Not dangerous

14.2 UN proper shipping name IMDG: Not dangerous

IATA: Not dangerous

14.3 Transport hazard class(es)

Packaging group

ADR RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR RID: - IMDG: - IATA: -

14.6 Special precautions for user

No data available

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATION/LEGISLATION SPECIFIC FOR THE SUBSTANCE

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Registered

EU yes (EINECS) USA yes (TSCA-CSI) Canada yes (DSL) Australia yes (AICS) Japan ves (ENCS) Korea yes (ECL) China yes (IECSC) **Philippines** yes (PICCS)

15.2 CHEMICAL SAFETY ASSESSMENT

For this product a chemical safety assessment was not carried out

16. OTHER INFORMATIONS

Hazard phrases according to reg.

1272/2008/CE All. III

none

R-phrases according to EC Dir.

67/548

No R-phrases

GLYCERINE Pag. 6 di 7



Reg. CE 1907/2006

References Glycerol IUCLID file on ECHA webpage

INCI name Glycerine

The information provided in this Safety Data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

GLYCERINE Pag. 7 di 7