

# SAFETY DATA SHEET Monopropylene glycol (MPG)

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

Date issued 04.11.2013

1.1. Product identifier

Product name Monopropylene glycol (MPG)

Chemical name 1,2-propylenglykol REACH Reg No. 01-2119456809-23-0000

CAS no. 57-55-6 EC no. 200-338-0 Article no. 16200000

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

Use of the substance/preparation Lösningsmedel (Solvent). Antifreeze liquid.

#### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Company name Fred Holmberg & Co AB

Office address Geijersgatan 8
Postal address Box 60056
Postcode S-216 10
City Limhamn
Country Sweden

Tel +46 (0)40 15 79 20 Fax +46 (0)40 16 22 95 E-mail info@holmberg.se

Website http://www.holmberg.se/en/

#### 1.4. Emergency telephone number

Emergency telephone 112 (Europe)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of substance or mixture

Classification notes Ej farligt ämne eller blandning enligt enligt Direktiv 67/548/EEG.

Not classified/subject to labelling according to 67/548/EEC.

Classification notes CLP Ej farligt ämne eller blandning enligt regelverket (EG) nr 1272/2008.

Not classified/subject to labelling according to (EC) No 1272/2008 [CLP/GHS].

2.2. Label elements

2.3. Other hazards

Other hazards Not known.

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

SubstanceIdentificationClassificationContentsMonopropylene glycol (MPG)CAS no.: 57-55-699,5

EC no.: 200-338-0 Classification

Registration number: 01- notes:Monopropylenglykol

2119456809-23-0000 är ej märkningspliktigt.

(Monopropylene glykol is not classified/subject to

labelling)

Column headings CAS no. = Chemical Abstracts Service; EU (Einecs or Elincs number) =

European inventory of Existing Commercial Chemical Substances; Ingredient name = Name as specified in the substance list (substances that are not included in the substance list must be translated, if possible). Contents given

in; %, %wt/wt, %vol/wt, %vol/vol, mg/m3, ppb, ppm, weight%, vol%

HH/HF/HE T+ = Very toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritating, E

= Explosive, O = Oxidizing, F+ = Extremly flammable, F = Very flammable,

N = Environmental hazard

#### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

Inhalation Move the exposed person to fresh air at once.

Skin contact Remove contaminated clothing immediately and wash skin with soap and

water

Eye contact Immediately flush with plenty of water for up to 15 minutes. Remove any

contact lenses and open eyes wide apart.

Ingestion Rinse mouth with water. Drink plenty of water.

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

Information for health personnel Treat Symptomatically.

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

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water

fog.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

5.3. Advice for firefighters

Fire fighting procedures

No specific fire fighting procedure given.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures Ensure suitable personal protection (including respiratory protection) during

removal of spillages in a confined area. Ventilate well. Stop leak if possible without risk. Avoid contact with skin and eyes. Do not breathe vapour.

#### 6.2. Environmental precautions

Environmental precautionary Avoid d

Avoid discharge into drains, water courses or onto the ground.

measures

#### 6.3. Methods and material for containment and cleaning up

Cleaning method Dam and absorb spillages with sand, earth or other non-combustible material.

Collect spillage in containers, seal securely and deliver for disposal according

to local regulations.

#### 6.4. Reference to other sections

Other instructions No recommendation given.

#### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Handling Mechanical ventilation may be required. Observe good industrial hygiene

practices.

#### **Protective Safety Measures**

Safety Measures To Prevent fire Take precautionary measures against static discharge. Keep away from heat /

sparks / open flames / hot surfaces. — No smoking.

Advice on general occupational

hygiene

Provide easy access to water supply and eye wash facilities.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage Keep away from heat, sparks and open flame. Store in a cool and well-

ventilated place. Protect from sunlight. Do not allow contact with air. Protect

from moisture.

Conditions To Avoid Avoid contact with oxidising agents.

7.3. Specific end use(s)

Specific use(s) Not entered.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Other Information about threshold

limit values

Innehåller inga ämnen med yrkeshygieniska gränsvärden.

Contains no substances with Occupational Exposure limit values.

Norske grenseverdier; FOR-2011-12-06-1358 vedlegg 1.

Produktet har ikke normverdi.

#### 8.2. Exposure controls

Occupational exposure limits

Well-ventilated area. Protective gloves and goggles are recommended. Provide

eyewash, quick drench.

#### Safetv signs





#### Respiratory protection

Respiratory protection Suitable respiratory protection must be used at high concentrations. If

ventilation is insufficient, suitable respiratory protection must be provided. Use

respiratory equipment with gas filter, type A2.

Hand protection

Hand protection Use protective gloves. Chemical resistant gloves required for prolonged or

repeated contact. Gloves of nitrile rubber, PVA or Viton are recommended.

Eye / face protection

Skin protection

Skin protection (except hands) Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene / Environmental

Specific hygiene measures Wash hands after contact.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state Colourless liquid.
Colour Colourless.
Odour Odourless.
pH (as supplied) Value: 6,4

Test temperature: 20 °C

Comments, pH (as supplied) 500g/kg
Melting point/melting range Value: -59 °C

Method of testing: Literature.

Boiling point / boiling range  $Value: \sim 184 \, ^{\circ}C$  Flash point  $Value: \sim 104 \, ^{\circ}C$ 

Method of testing: Literature

Vapour pressure Value: 0,2 hPa

Test temperature: 25 °C

Specific gravity Value: 1030 kg/m3

Test temperature: 20 °C

Solubility in water Blandbar (miscible).

Partition coefficient: n-octanol/water Value: -1,07

Test temperature: 20,5

Spontaneous combustability

Value: > 400 °C

Viscosity

Value: 43,428 mPa/s

Test temperature: 25 °C

#### 9.2. Other information

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

#### 10.3. Possibility of hazardous reactions

#### 10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid contact with strong

oxidisers.

#### 10.5. Incompatible materials

#### 10.6. Hazardous decomposition products

Hazardous decomposition products Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### **Toxicological Information:**

Other toxicological data

Acute Toxicity (Oral LD50): mg/kg (oral rat) > 22000 (OECD 401)

Acute Toxicity (Dermal LD50): > 2000 mg/kg Rabbit

#### Potential acute effects

Inhalation Icke klassificerad som aspirationstoxisk (Not classified as asp. tox.)

Skin contact

Eye contact

Not Irritating.

Not Irritating.

Delayed effects / repeated exposure

Sensitisation Not known.

Chronic effects None known.

STOT-single exposure Not known.

STOT-repeated exposure Not known.

## Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity None.

Mutagenicity Not known.

Teratogenic properties Not known.

Reproductive toxicity None.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Acute aquatic, fish Value: 40,613 mg/l

Method of testing: LC50

Fish, species: Oncorhynchus mykiss

Duration: 96h

Acute aquatic, algae Value: 24200 mg/l

> Method of testing: EC50 (OECD 201) Algae, species: Selenastrum capricornutum

Duration: 72h

Value: 18800 mg/l Acute aquatic, Daphnia

Method of testing: EC50

Daphnia, species: Mysidopsis bahia

Duration: 48h

Other ecotoxicological information, NOEC (7 d) 13.020 mg/l, Ceriodaphnia sp.

crustaceans

#### 12.2. Persistence and degradability

Persistence and degradability Lätt biologiskt nedbrytbar (Readily biodegradable).

description

#### 12.3. Bioaccumulative potential

Bioaccumulative potential Data lacking.

12.4. Mobility in soil

Surface tension Value: 71,6 mN/m Comments, Surface tension (21,5 °C; 1,01 g/l)

(Direktiv 92/69/EEG, A.5, OECD-ringmetod)

#### 12.5. Results of PBT and vPvB assessment

PBT assessment results This substance is not classified as PBT or vPvB.

#### 12.6. Other adverse effects

Other adverse effects / Remarks None known.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Specify the appropriate methods of

disposal

Confirm disposal procedures with environmental engineer and local regulations. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point. Liquid components can be disposed of by incineration.

Product classified as hazardous

waste

Nο

Nο

Packaging classified as hazardous

waste

## **SECTION 14: Transport information**

#### 14.1. UN number

Comments Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code,

ICAO/IATA-DGR

#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)

#### 14.4. Packing group

#### 14.5. Environmental hazards

#### 14.6. Special precautions for user

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship type required NA Pollution category Z

## **SECTION 15: Regulatory information**

EC no. 200-338-0

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Other Label Information Regulation (EC) No 1272/2008 of the European Parliament and of the Council

of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC,

and amending Regulation (EC) No 1907/2006 with amendments.

Legislation and regulations Dangerous Substance Directive 67/548/EEC.

The Chemicals (Hazard Information and Packaging for Supply) Regulations

2009 (S.I 2009 No. 716).

The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No.

895). Avfallsförordningen (2011:927).

#### 15.2. Chemical safety assessment

#### **SECTION 16: Other information**

Responsible for safety data sheet Fred Holmberg & Co AB