

# SAFETY DATA SHEET MONOPROPYLENE GLYCOL FG

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

| 1.1. Product identifier  |   |
|--|---|
| Product name<br>Product No.  | MONOPROPYLENE GLYCOL FG<br>7527   |
| Synonyms, Trade Names<br>REACH Registration number<br>CAS-No.<br>EC No.                              | PROPYLENE GLYCOL, PROPAN 1, 2 DIOL, DOWCAL 20, DOWCAL N , 1, 2<br>PROPYLENE GLYCOL CARE, PROPYLENE GLYCOL INDUSTRIAL GRADE,<br>MONOPROPYLENE GLYCOL PH , MPG STANDARD, PROPYLENE GLYCOLUSP<br>GRADE, PROPYLENE GLYCOL TECHNICAL GRADE, PROPYLENE GLYCOL<br>USP/EP, KOLLISOLV PG, MONOPROPYLENE GLYCOL USP FCC ED 7,<br>MONOPROPYLENE GLYCOL T, MONOPROPYLENE GLYCOL DOW<br>01-2119456809-23<br>57-55-6<br>200-338-0 |
| 1.2. Relevant identified use   | s of the substance or mixture and uses advised against  |
| Identified uses  | Chemical Intermediate<br>Antifreeze liquid.<br>Industrial Solvent<br>Pharmaceuticals<br>Food industry<br>Cosmetics  |
| 1.3. Details of the supplier of  | of the safety data sheet  |
| Supplier   | Niche Solutions GB Ltd<br>Unit 5, Milton Trading Estate<br>Gayton Road<br>Milton Malsor<br>Northants<br>NN7 3AB<br>+44 1604 879831<br>+44 1604 879832<br>nichesolutions@aol.com   |
| 1.4. Emergency telephone   | number  |
| Emergency Contact Number (Offi<br>+44 1604 879831<br>Emergency Contact Number (Out<br>+447973 164357 | tside Office Hours)   |
| Sds No.<br>SECTION 2: HAZARDS  | 20317<br>IDENTIFICATION   |

Classification (EC 1272/2008)

Physical and ChemicalNot classified.HazardsHuman healthNot classified.EnvironmentNot classified.Not classified.

Classification (67/548/EEC) Not classified. The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16. Environment

The product is not expected to be hazardous to the environment.

### 2.2. Label elements

EC No. 200-338-0 Label In Accordance With (EC) No. 1272/2008 No pictogram required.

# 2.3. Other hazards

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

| Product name              | MONOPROPYLENE GLYCOL |
|---------------------------|----------------------|
| REACH Registration number | 01-2119456809-23     |
| CAS-No.                   | 57-55-6              |
| EC No.                    | 200-338-0            |
| Osman saltian Osman salta |                      |

#### **Composition Comments**

This product is not classified as hazardous, the information in this datasheet is given for guidance only.

### SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### Inhalation

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

### Ingestion

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.

### Skin contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues. **Eve contact** 

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

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

Skin contact Slightly irritating.

Eye contact

May cause temporary eye irritation.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

# SECTION 5: FIREFIGHTING MEASURES

### Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

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

# Specific hazards

Oxides of: Carbon.

# 5.3. Advice for firefighters

### Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

# 6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

### 6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

### SECTION 7: HANDLING AND STORAGE

# 7.1. Precautions for safe handling

Avoid spilling, skin and eye contact.

# 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Store in closed original container at temperatures between 0°C and 40°C.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1. Control parameters

| Name                 | STD | -       | EL<br>Ref. period | - | EL<br>Ref. period | Notes |
|----------------------|-----|---------|-------------------|---|-------------------|-------|
| MONOPROPYLENE GLYCOL | WEL | 150 ppm | mg/m3             |   |                   |       |

WEL = Workplace Exposure Limit.

#### DNEL

| Industry<br>Industrv<br>Consumer<br>Consumer<br><b>PNEC</b>                | Inhalation.<br>Inhalation.<br>Inhalation.<br>Inhalation. | Long Term<br>Long Term<br>Long Term<br>Long Term |
|--|--|--|
| Freshwater<br>Marinewater<br>STP<br>Sediment (Freshwa<br>Sediment (Marinew |  | ma/l<br>ma/l<br>ma/l<br>ma/l<br>ma/l             |

| Systemic Effects | 50 mg/m3  |
|------------------|-----------|
| Local Effects    | 10 mg/m3  |
| Systemic Effects | 168 mg/m3 |
| Systemic Effects | 10 mg/m3  |

mg/l

8.2. Exposure controls

50

Protective equipment

Soil



### Engineering measures

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of vapours.

### Respiratory equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

#### Hand protection

No specific hand protection noted, but gloves may still be advisable. Use protective gloves made of: Impermeable material.

### Eye protection

If risk of splashing, wear safety goggles or face shield.

#### **Other Protection**

Wear appropriate clothing to prevent any possibility of skin contact.

#### Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

| Appearance<br>Colour              | Liquid<br>Colourless. or Misc. colours. |
|-----------------------------------|---|
| Solubility                        | Soluble in water.                       |
| Initial boiling point and boiling | > 150                                   |
| range (°C)                        |   |
| Melting point (°C)                | <-51                                    |
| Relative density                  | 1.03 - 1.05 20                          |
| Vapour pressure                   | <10 mbar 20°C                           |
| pH-Value, Conc. Solution          | 7 - 10                                  |
| Viscosity                         | 43 cSt 20                               |
| Flash point (°C)                  | 104 PM Closed cup.                      |
| Auto Ignition Temperature (°C)    | >370                                    |
| Flammability Limit - Lower(%)     | 2.6                                     |
| Flammability Limit - Upper(%)     | 12.5                                    |
| Partition Coefficient             | log Pow                                 |
| (N-Octanol/Water)                 | -1.07                                   |

### 9.2. Other information

Not determined.

SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation Will not polymerise.

# 10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

# 10.5. Incompatible materials

### Materials To Avoid

Strong oxidising substances. Strong acids. Strong alkalis.

# 10.6. Hazardous decomposition products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: TOXICOLOGICAL INFORMATION

# 11.1. Information on toxicological effects

Acute toxicity: Acute Toxicity (Oral LD50) 20000 mg/kg Rat

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

Skin Corrosion/Irritation: Not irritating.

<u>Serious eye damage/irritation:</u> Data lacking.

Respiratory or skin sensitisation: Not Sensitising.

# Germ cell mutagenicity:

This substance has no evidence of mutagenic properties.

# Carcinogenicity:

This substance has no evidence of carcinogenic properties.

# Reproductive Toxicity:

This substance has no evidence of toxicity to reproduction.

Target Organs Central nervous system

### Inhalation

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

# Ingestion

May cause discomfort if swallowed.

# Skin contact

Liquid may irritate skin. **Eye contact** Spray and vapour in the eyes may cause irritation and smarting.

# SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

# 12.1. Toxicity

Acute Fish Toxicity Not considered toxic to fish. Acute Toxicity - Fish LC50 96 hours 40613 mg/l Onchorhynchus mykiss (Rainbow trout) Acute Toxicity - Aquatic Invertebrates EC50 48 hours > 4000 mg/l Daphnia magna Acute Toxicity - Aquatic Plants EC50 96 hours 19000 mg/l Scenedesmus subspicatus

12.2. Persistence and degradability

### Degradability

The substance is readily biodegradable. **Biodegradation** Degradation (81%) > 28 days OECD 301F Degradation (96%) 64 days

12.3. Bioaccumulative potential

### **Bioaccumulative potential**

The product is not bioaccumulating. Bioaccumulation factor BCF < 100 Partition coefficient log Pow -1.07

# 12.4. Mobility in soil

Mobility: The product is miscible with water. May spread in water systems. Henry's Law Constant 1.2 E -08 atm m3/mol

# 12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

# 12.6. Other adverse effects

Not determined.

# SECTION 13: DISPOSAL CONSIDERATIONS

### General information

Do not puncture or incinerate even when empty.

# 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

# SECTION 14: TRANSPORT INFORMATION

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

# 14.1. UN number

No information required.

# 14.2. UN proper shipping name

No information required.

# 14.3. Transport hazard class(es)

No information required.

### 14.4. Packing group

No information required.

# 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant No.

# 14.6. Special precautions for user

No information required.

# 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information required.

# SECTION 15: REGULATORY INFORMATION

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

### EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. 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.

# 15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out.

# SECTION 16: OTHER INFORMATION

### **Revision Comments**

NOTE: Lines within the margin indicate significant changes from the previous revision.

| Revision Date             | 26.09.2013       |
|---------------------------|------------------|
| Revision                  | 02               |
| SDS No.                   | 20317            |
| Safety Data Sheet Status  | Approved.        |
| Date                      | 27.09.2010       |
| Signature                 | Jitendra Panchal |
| Risk Phrases In Full      |                  |
| NC                        | Not classified.  |
| Hazard Statements In Full |                  |
|                           |                  |