SAFETY DATA SHEET

VG/PG Base Mix (Vegetable Glycerine / Propylene Glycol)

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577 (UK REACH), Annex II, and GB CLP (SI 2019 No. 720)

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

1.1. Product identifier

Product name VG/PG Base Mix

Product form Mixture

Description Premixed vegetable glycerine (glycerol) and propylene glycol (propane-1,2-diol). Supplied in ratios from 100% VG to 100% PG; the ratio is stated on the product label. Nicotine-free.

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

Identified uses Base liquid for DIY mixing, cosmetic and soap making, humectant, fog/haze fluid.

Uses advised against Formation of mists or fog in enclosed spaces without adequate ventilation.

1.3. Details of the supplier of the safety data sheet

Supplier

Byon Limited
Gemma House
39 Lilestone Street
London
England
NW8 8SS

E: contact@ukonyx.com

1.4. Emergency telephone number

Emergency telephone 0333 339 3295

National emergency telephone number National Poisons Information Service

For medical advice or information you should contact your GP or NHS 111 (or NHS 24 in Scotland) on 111 (for 24 hour health advice)

If you are a healthcare professional with an enquiry please visit www.TOXBASE.org

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard statements NC Not Classified

Supplementary precautionary statements P102 Keep out of reach of children.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB. Spillages are slippery.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Identifiers	%	Classification (SI 2019 No. 720)
Glycerol (vegetable glycerine, VG)	CAS-No.: 56-81-5 EC-No.: 200-289-5 REACH: exempt under Annex V	0 - 100	Not Classified
Propane-1,2-diol (propylene glycol, PG)	CAS-No.: 57-55-6 EC-No.: 200-338-0 REACH-no.: 01-2119456809-23	0 - 100	Not Classified

The exact ratio of glycerol to propylene glycol is stated on the product label. Neither component is classified as hazardous.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention if any discomfort continues.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if symptoms persist.

Ingestion Rinse mouth thoroughly with water. Give a glass of water to drink. Get medical attention if feeling unwell.

Skin contact Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

Eye contact Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation persists.

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

Inhalation Mists or vapours may irritate the throat and respiratory system.

Ingestion Large amounts may cause gastrointestinal upset.

Skin contact Prolonged contact may cause dryness of the skin.

Eye contact May cause temporary eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media Do not use a direct water jet, as this may spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Combustible at high temperatures but not easily ignited. Containers can burst violently when heated.

Hazardous combustion products Carbon monoxide and carbon dioxide; acrolein may be formed when glycerol is strongly heated.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and suitable protective clothing. Cool containers exposed to heat with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Spillages are slippery. Wear protective clothing as described in Section 8. Avoid contact with eyes.

6.2. Environmental precautions

Environmental precautions Avoid release of large quantities to drains, watercourses or the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with an inert, dry material (e.g. sand, earth) and place in a suitable waste disposal container. Wash the area with plenty of water. Small spills may be flushed to drain with plenty of water where local regulations allow.

6.4. Reference to other sections

See Section 8 for personal protective equipment and Section 13 for waste treatment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid contact with eyes. Avoid generating mists in poorly ventilated areas. Do not eat, drink or smoke when using this product. Wash hands after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in the original, tightly closed container in a cool, dry place away from direct sunlight. The product is hygroscopic (absorbs moisture from air). Store away from strong oxidising agents and acids. Keep out of the reach of children.

7.3. Specific end use(s)

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

Substance	Long-term exposure limit (8-hour TWA)
Propane-1,2-diol (CAS 57-55-6)	WEL 150 ppm, 474 mg/m³ (total vapour and particulates) WEL 10 mg/m³ (particulates)
Glycerol (CAS 56-81-5)	WEL 10 mg/m³ (mist)

WEL = Workplace Exposure Limit (EH40/2005).

DNEL (propane-1,2-diol) Workers - inhalation, long-term systemic: 168 mg/m³; long-term local: 10 mg/m³.
General population - inhalation, long-term systemic: 50 mg/m³; long-term local: 10 mg/m³.

PNEC (propane-1,2-diol) Fresh water 260 mg/l; marine water 26 mg/l; STP 20,000 mg/l; sediment (fresh water) 572 mg/kg; sediment (marine) 57.2 mg/kg; soil 50 mg/kg.

8.2. Exposure controls

Appropriate engineering controls Provide adequate general ventilation, particularly where mists or fog are generated.

Eye/face protection Safety glasses or chemical splash goggles (EN 166) if eye contact is possible.

Hand protection For prolonged contact, wear protective gloves complying with EN 374 (nitrile or butyl rubber).

Hygiene measures Wash hands after handling. Do not eat, drink or smoke when using this product.

Respiratory protection Not normally required. If ventilation is inadequate when mists are generated, use a suitable particulate filter (EN 143).

Environmental exposure controls Not regarded as dangerous for the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Clear, viscous liquid.

Colour Colourless.

Odour	Odourless to slightly sweet.
Odour threshold	Not determined.
pH	Not determined.
Melting point/freezing point	Not determined (glycerol 18 °C; propylene glycol < -20 °C).
Initial boiling point and range	184 °C (propylene glycol) to 290 °C (glycerol), depending on ratio.
Flash point	≥ 104 °C (propylene glycol 104 °C; glycerol > 180 °C).
Flammability	Not flammable under normal conditions.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Low (propylene glycol 20 Pa @ 25 °C; glycerol < 1 hPa @ 20 °C).
Relative density	1.03 - 1.26 @ 20 °C, depending on ratio.
Solubility(ies)	Miscible with water.
Partition coefficient	log Pow: -1.07 (propylene glycol).
Auto-ignition temperature	> 370 °C.
Viscosity	Increases with glycerol content (propylene glycol 43.4 mPa s @ 25 °C).
Explosive properties	Not considered to be explosive.
Oxidising properties	Not considered to be oxidising.

9.2. Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	May react with strong oxidising agents and acids.
10.2. Chemical stability	Stable at normal ambient temperatures and when used as recommended. Hygroscopic.
10.3. Possibility of hazardous reactions	No hazardous reactions known under normal conditions.
10.4. Conditions to avoid	Avoid strong heating.
10.5. Incompatible materials	Strong oxidising agents. Strong acids. May be incompatible with some plastics.
10.6. Hazardous decomposition products	Does not decompose when used and stored as recommended. On strong heating: carbon monoxide, carbon dioxide, acrolein.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP

Acute toxicity - oral	Propylene glycol LD_{50} 22,000 mg/kg (rat). Glycerol LD_{50} > 5,000 mg/kg (rat). Based on available data, the classification criteria are not met.
Acute toxicity - dermal	Propylene glycol LD_{50} 2,000 mg/kg (rat). Based on available data, the classification criteria are not met.
Acute toxicity - inhalation	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Not classified.

STOT - repeated exposure	Not classified.
Aspiration hazard	Based on available data, the classification criteria are not met.

11.2. Information on other hazards

No additional information available.

SECTION 12: Ecological information

12.1. Toxicity	Not regarded as dangerous for the environment. Propylene glycol: LC_{50} 96 h 40,613 mg/l (Oncorhynchus mykiss); LC_{50} 48 h 18,340 mg/l (freshwater invertebrates). Glycerol: fish LC_{50} > 10,000 mg/l; algae EC_{50} > 10,000 mg/l.
12.2. Persistence and degradability	Glycerol is readily biodegradable (OECD 301: > 60 % after 28 days).
12.3. Bioaccumulative potential	Not expected to bioaccumulate (propylene glycol log Pow -1.07).
12.4. Mobility in soil	Miscible with water; expected to be mobile in soil.
12.5. Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
12.6. Endocrine disrupting properties	No additional information available.
12.7. Other adverse effects	Large or frequent spills may have hazardous effects on the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	Dispose of surplus product and containers in accordance with local and national regulations. Do not allow large quantities to enter drains or watercourses. Empty containers should be rinsed before recycling or disposal.

SECTION 14: Transport information

General	The product is not covered by international regulations on the transport of dangerous goods (ADR/RID, IMDG, IATA).
14.1. UN number	Not applicable.
14.2. UN proper shipping name	Not applicable.
14.3. Transport hazard class(es)	No transport warning sign required.
14.4. Packing group	Not applicable.
14.5. Environmental hazards	Environmentally hazardous substance/marine pollutant: No.
14.6. Special precautions for user	Not applicable.
14.7. Maritime transport in bulk	Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 (SI 2020 No. 1577). The Classification, Labelling and Packaging of Chemicals (Amendments to Secondary Legislation) Regulations 2019 (SI 2019 No. 720) (GB CLP). EH40/2005 Workplace exposure limits.
15.2. Chemical safety assessment	No chemical safety assessment has been carried out for the mixture.

SECTION 16: Other information

Revision comments	First issue.
Revision date	15/10/2026
Revision	1
Hazard statements in full	NC Not Classified
Key literature references and sources for data	Supplier safety data sheets for the component substances (glycerol, propane-1,2-diol).
Abbreviations	VG: vegetable glycerine. PG: propylene glycol. GB CLP: Classification, Labelling and Packaging as retained in Great Britain. WEL: Workplace Exposure Limit. DNEL: Derived No-Effect Level. PNEC: Predicted No-Effect Concentration. PBT: Persistent, Bioaccumulative and Toxic. vPvB: very Persistent and very Bioaccumulative.

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