Phone 07 870 2024
sales@vetpak.co.nz
www.vetpak.co.nz

Version 1.1

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## SECTION 1 – IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Identifier

| | |
|---|---|
| Product Name | Glycerine |
| Other Names | Glycerin; Glycerine Refined; Glycerol; Semi Refined Crude Glycerine Q3 |
| Proper Shipping Name | 1,2,3-Propanetriol |
| Other means of Identification | None |

Relevant identified uses of the substance or mixture

| | |
|---|---|
| Relevant identified uses | Food product; Feed ingredient; Cosmetic products; Technical applications; Industrial applications. |

Details of the supplier of the safety data sheet

| | |
|---|---|
| Registered company name | Vetpak Limited |
| Address | 249 Bruce Berquist Dr, Te Awamutu 3800. |
| Telephone | (07) 870 2024 |
| Website | www.vetpak.co.nz |
| Email | sales@vetpak.co.nz |

Emergency telephone numbers

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|---|---|
| Association/ Organisation | New Zealand National Poison information centre |
| Emergency telephone number | 0800 764 766<br>(07) 870 2024 Vetpak. 8.00am to 5.00pm Monday to Friday except public holidays. |
| Other emergency telephone numbers | New Zealand emergency services 111 |

## SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification:

This product is not hazardous according to the criteria of the Globally Harmonised System of classification and labelling of chemicals (GHS)

## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

| CAS Number | % (weight) | Name |
|---|---|---|
| 56 – 81 – 5 | 100 | 1,2,3-Propanetriol |

## SECTION 4 – FIRST AID MEASURES

Description of first aid measures

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| Eye contact | ➢ Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids.<br>➢ Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes.<br>➢ If eye irritation persists, get medical advice/attention. |
| Skin contact | ➢ Wash with plenty of soap and water.<br>➢ Take off contaminated clothing and wash it before reuse.<br>➢ If skin irritation occurs, get medical advice/attention. |
| Inhalation | ➢ Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>➢ If respiratory symptoms persist, get medical advice/attention.<br>➢ Give artificial respiration if victim is not breathing.<br>➢ Administer oxygen if breathing is difficult. |
| Ingestion | ➢ Rinse mouth, then drink a glass of water. Do not induce vomiting. Get medical advice/attention if you feel unwell.<br>➢ Never give anything by mouth to an unconscious person. |
| Advice to the doctor | Treat symptomatically and supportively. Most important symptoms and effects, both acute and delayed: None known. |

## SECTION 5 – FIREFIGHTING MEASURES

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| Extinguishing media | ➢ Use dry chemical, Carbon dioxide (CO2)<br>➢ alcohol-resistant foam or water spray for extinction<br>➢ Do not use water jets. |

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| Flammability Conditions | ➢ Alert fire brigade and tell location and nature of hazard<br>➢ Combustible liquid, it may burn but does not ignite readily |

Advice for fire fighters

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|---|---|
| Fire fighting | ➢ Alert fire brigade and tell location and nature of hazard<br>➢ Wear breathing apparatus plus protective gloves in the event of a fire<br>➢ Prevent spillage from entering the waterways or drains<br>➢ Consider evacuation (or protect in place)<br>➢ Fight the fire from a safe distance and adequate cover |
| Fire/explosion hazard | ➢ Containers may explode when heated.<br>➢ Oil soaked rags can cause spontaneous combustion if not handled properly.<br>➢ Before disposal, wash rags with soap and water and dry in a well-ventilated area. |
| Special fire fighting hazards | ➢ Contain runoff from fire control or dilution water - Runoff may pollute waterways. |
| Flash Point | ➢ > 180 - 198.9 °C |
| Protection Equipment | ➢ Wear positive pressure self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firelighter's uniform may provide limited protection. |

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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| Minor spills | ➢ Remove all ignition sources<br>➢ Clean up spills immediately<br>➢ Avoid breathing vapours and contact with skin and eyes<br>➢ Contain and absorb small quantities with absorbent material |
| Major spills | ➢ Alert fire brigade and tell them location and nature of hazard<br>➢ Prevent spillage from entering the waterways or drains<br>➢ Consider evacuation (or protect in place)<br>➢ Increase ventilation |
| Clean Up Procedures | ➢ Recover large spills for salvage or disposal. Pick up spills/residues with sand or other non-combustible absorbent material and place into containers for later disposal. Never return spills into original containers for re-use. |
| Containment | ➢ Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Dike far ahead of large spill for later disposal. |
| Decontamination | ➢ Clean surface thoroughly to remove residual contamination. Wash hard surfaces with detergent to remove remaining oil film. |
| Environment Precaution Measures | ➢ Prevent entry into drains and waterways.<br>➢ Dispose of any absorbent material properly according to local authority regulations |

## SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling

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|---|---|
| Safe Handling | ➢ Safety showers and eyewash facilities should be provided within the immediate work area for emergency use.<br>➢ Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.<br>➢ Avoid breathing mist/vapours/aerosols and contact with eyes, skin and clothing.<br>➢ Do not ingest. Use personal protective equipment as required<br>➢ Avoid exposure to heat and sources of ignition - No smoking. |

Conditions for safe storage, including any incompatibilities

| | |
|---|---|
| Suitable container | ➢ Keep in the original container |
| Storage incompatibility | ➢ Store in a cool, dry and well-ventilated place, out of direct sunlight.<br>➢ Keep container tightly closed when not in use - check regularly for leaks.<br>➢ Protect against physical damage.<br>➢ Protect from moisture (hygroscopic).<br>➢ Keep away from heat and sources of ignition - No smoking.<br>➢ Keep away from incompatible materials |

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|---|---|
| General | For Glycerin mist (CAS No. 56-81-5):-<br>Safe Work Australia Exposure Standard: TWA = 10 mg/m3.<br>New Zealand Workplace Exposure Standard: TWA = 10 mg/m3. |

Exposure controls

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|---|---|
| | A system of local and/or general exhaust is recommended to keep employee exposures as low as possible.<br>Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. |

| | |
|---|---|
| Appropriate engineering controls | Do not eat, drink or smoke when using this product.<br>Always wash hands before smoking, eating, drinking or using the toilet.<br>Wash contaminated clothing and other protective equipment before storage or re-use. |
| Personal protection |  |
| Eye and face protection | ➢ Safety glasses with side shields<br>➢ Chemical goggles<br>➢ Contact lenses may pose a special hazard soft contact lenses may absorb and concentrate materials.<br>➢ Medical personal should be trained and readily available in the event of chemical exposure; they should begin eye irrigation and remove contact lenses as soon as practicable. Lenses should be removed at the first sign of eye irritation |
| Skin protection | Wear general protective gloves e.g. light weight rubber gloves |
| Hand / feet protection | As above for hands; wear appropriate footwear for the environment |
| Other protection | ➢ Overalls<br>➢ PVC Aprons<br>➢ PVC protective gear<br>➢ Eyewash facilities<br>➢ Ensure there is ready access to a safety shower |

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|---|---|---|---|
| Appearance | Clear Liquid | Relative density (Water = 1) | approx. 1.26 (H2O = 1) |
| Odour | Olfactory | Auto ignition temperature | Not available |
| Odour threshold | Not Available | Decomposition temperature | Not available |
| pH | 6.0 | Viscosity | 107.5 mPa.s (55 ºC) - 1,410 mPa.s (20 ºC) |
| Melting point (°C) | 18 - 20 °C | Molecular weight (g/mol) | Not available |
| Boiling point (°C) | 290 - 295 °C | Taste | Not available |
| Flash point (°C) | 400 °C | Explosive properties | Not explosive |
| Evaporation rate | 2.4 | Oxidising properties | Not available |
| Flammability | Not flammable | Volatile component (% vol) | None |

## SECTION 10 – STABILITY AND REACTIVITY

| | |
|---|---|
| General Information | Reacts vigorously and explosively with oxidisers, such as chromium trioxide, potassium chlorate, or potassium permanganate. Reacts violently with acid anhydrides, sodium peroxide, silver perchlorate, lead oxide, aniline, nitrobenzene, lead oxide, ethylene oxide and fluorine. |
| Chemical stability | Stable under normal conditions of use. |
| Conditions to avoid | Keep away from heat and sources of ignition. Avoid exposure to moisture (hygroscopic). |
| Incompatible materials | Incompatible/reactive with acids, acid anhydrides, oxidising agents, nitrobenzene, aniline. |
| Hazardous Polymerisation | Hazardous polymerisation will not occur. |

## SECTION 11 – TOXICOLOGICAL INFORMATION

| | |
|---|---|
| General Information | Information on toxicological effects:- Acute toxicity: Not classified.-<br>Skin corrosion/irritation: Not classified.-<br>Serious eye damage/irritation: Not classified.- Respiratory/skin sensitisation: Not classified.- Germ cell mutagenicity: Not classified-<br>Carcinogenicity: Not classified.<br>Reproductive toxicity: Not classified.<br>STOT (single exposure): Not classified<br>STOT (repeated exposure): Not classified<br>Aspiration toxicity: Not classified. |

## SECTION 12 – ECOLOGICAL INFORMATION

| | |
|---|---|
| Ecotoxicity | Not expected to be harmful to aquatic organisms. |
| Persistence/Degradability | Material is organic by nature and would be expected to breakdown readily in the environment. |
| Bioaccumulation Potential | Material is organic by nature and would be expected to breakdown readily in the environment. |
| Environmental Impact | No information available |

## SECTION 13 – DISPOSAL CONSIDERATIONS

Waste treatment methods

| | |
|---|---|
| Product / packaging disposal | ➢ Do not allow wash water from cleaning or process equipment to enter drains<br>➢ It may be necessary to collect all wash water for treatment before disposal<br>➢ In all case disposal to sewer may be subject to local laws and regulations and these should be considered first<br>➢ If in doubt contact the responsible authority<br>➢ Contact manufacturer for recycling options or consult local or regional waste management authority for disposal<br>➢ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed |

## SECTION 14 – TRANSPORT INFORMATION

Labels required

| | |
|---|---|
| Marine Pollutant | NO |
| HAZCHEM | Not Hazardous |

Land transport (ADG)

| | |
|---|---|
| UN Number | No data available |
| Packing group | No data available |
| UN proper shipping name | No data available |
| Environmental hazard | Not Hazardous |
| Transport hazard classes | No data available |
| Special precautions for user | No data available |

Air transport (ICAO-IATA / DGR)

| | |
|---|---|
| UN Number | No data available |
| Packing group | No data available |

| | |
|---|---|
| UN proper shipping name | No data available |
| Environmental hazard | Not Hazardous |
| Transport hazard classes | No data available |
| Special precautions for user | No data available |

Sea transport (IMDG / GGVSee)

| | |
|---|---|
| UN Number | No data available |
| Packing group | No data available |
| UN proper shipping name | No data available |
| Environmental hazard | Not Hazardous |
| Transport hazard classes | No data available |
| Special precautions for user | No data available |
| Marine Pollutant | No data available |

Transport in bulk according to Annex II of Marpol and the IBC Code - Not applicable

## SECTION 15 – REGULATORY INFORMATION

Safety, health and environment regulations / legislation specific for the substance or mixture

| | |
|---|---|
| GHS Codes | None |
| National Inventory | Status - Approved |
| Australia – AICS | Yes |
| Europe – EINEC / ELINCS / NLP | Yes |
| New Zealand – NZIoC | Yes - All ingredients are on the inventory |
| Environmental Protection Authority (New Zealand) | Hazardous Substances and New Organisms Amendment Act 2015 |
| Approval Code | Non Hazardous |

## SECTION 16 – OTHER INFORMATION

While Vetpak Limited in good faith has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Vetpak Limited accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

New Zealand National Poison Information Centre: 0800 764 766
New Zealand Emergency Services: 111
Vetpak Limited: +64 7 870 2024

Definitions and abbreviations

| | |
|---|---|
| PC – TWA | Permissible concentration – time weighted average |
| PC – STEL | Permissible concentration – short term exposure limit |
| IARC | International agency for research on cancer |
| ACGIH | American conference of Government Industrial Hygiene |
| STEL | Short term exposure limit |
| TEEL | Temporary emergency exposure limit |
| IDLH | Immediate dangerous to life or health concentration |
| OSF | Odour safety factor |
| NOAEL | No observed adverse effect level |

| | |
|---|---|
| LOAEL | Lowest observed adverse effect level |
| TLV | Threshold limit value |
| LOD | Limit of detection |
| OTV | Odour threshold value |
| BCF | BioConcentration factors |

**END OF SDS**