

SAFETY DATA SHEET

2010

1. Chemical Product and Company Identification

PRODUCT NAME: **Monopropylene glycol Pharma Grade**
OTHER NAME: Propylene glycol, 1,2-Propanediol
SUPPLIER: FRP Services and Company (Shanghai) Ltd.
RECOMMENDED USE: Pharmaceutical, cosmetics, preservative
New Zealand Importer: Rebain International (NZ) Ltd.
Level 1, 2 Fred Thomas Drive
Takapuna 0622
Phone: +64 9 486 6637 (Mon – Fri 8.30am – 5pm)
Fax: +64 9 486 6286
Hazardous Substance Emergency: 0800 243 622 (24 Hours)
National Poisons Centre: 0800 764 766

2. Hazard Identification

NEW ZEALAND HAZARDOUS SUBSTANCES CLASSIFICATION:

It has been determined that this substance is non-hazardous in accordance with the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

HAZARDS:

- Slightly combustible.
- Do not handle near heat, sparks or open flame.
- Avoid contact with eyes.
- Do not cut or weld near this container, do not pressurise.
- Obey all label warning especially during container cleaning.

3. Composition/ Information on Ingredients

	Cas No.	Typical Proportion
Propylene Glycol	57-55-6	99.5% min

4. First Aid Measures

INHALATION: Remove to fresh air. Not expected to require first aid measures.
SKIN CONTACT: Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation

	develops or persists.
EYE CONTACT:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Call a physician if irritation persists.
INGESTION:	Not expected to require first aid measures. Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.
NOTE TO PHYSICIAN:	In case of ingestion, monitor for acidosis and central nervous system changes. Exposed persons with previous kidney dysfunction may require special treatment.
OTHER INFORMATION:	For advice, contact a Poisons Information Centre (Phone Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire Fighting Measures

FIRE EXTINGUISHING MEDIA:

Dry chemical, water, CO₂ or alcohol type foam.

SPECIAL INFORMATION:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Move exposed containers from fire area, if it can be done without risk. Use water to keep fire-exposed containers cool.

6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e.g. vermiculite, dry sand, earth) and place in a chemical waste container. Do not use combustible material, such as sawdust. Do not flush to sewer.

7. Handling and Storage

Protect container from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatible substances. Containers of this material may retain product residue; therefore, observe all warnings and precautions for packaging as listed for the product.

8. Exposure Controls and Personal Protection

EXPOSURE LIMIT:

New Zealand Workplace Exposure Standards 2002

Propane-1,2 diol (2001) [CAS No. 57-55-6]

Vapour and particulates:	150 ppm	474 mg/m ³
Particulates only		10 mg/m ³

VENTILATION SYSTEM:

A system of local and/or general exhaust is recommended to keep employee exposures below the exposure limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminants at its source, preventing dispersion of it into the general work area. Refer to ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, the most recent edition, for details.

PERSONAL RESPIRATORS (NISOH Approved):

If the exposure limit is exceeded, a half-face respirator with an organic vapour cartridge and particulate filter (NISOH type P95 or R95 filter) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-facepiece respirator with an organic vapour cartridge and particulate filter (NISOH P100¹ or R100² filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. Please note that N series³ filters are not recommended for this material. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

SKIN PROTECTION:

Wear protective gloves and clean body-covering clothing.

EYE PROTECTION:

Use chemical safety goggles. Maintain eye wash fountain and quick drench facilities.

9. Physical and Chemical Properties

APPEARANCE:	Water-white sticky-thick liquid
BOILING POINT:	187.3°C
MELTING POINT:	-59.5°C

¹ Oil-Proof. However, check manufacturer's recommended service life when oil aerosols are present. Long-term exposure to oil may lead to degradation. (Note: these filters do not provide protection from organic vapours).

² Resistant to oil but should not be used more than one shift. (Note: these filters do not provide protection from organic vapours).

³ All particulate (airborne solids) where no oil or solvent is in the air.

FLASH POINT: 107°C (open cup): 98.9°C (closed cup)

RELATIVE DENSITY: 1.0381 g/ml @ 20°C

10. Stability and Reactivity

No information available.

11. Toxicological Information

No information available.

12. Ecological Information

No information available.

13. Disposal Considerations

PRODUCT:

When disposing of unused contents, comply with applicable regulatory and local procedures.

UNCLEANED PACKAGING:

Offer empty container to qualified reconditioner, or crush and dispose of in approved landfill or by other procedures approved of by local authorities.

14. Transport Information

This substance is not a dangerous good for transport.

15. Regulatory Information

Propylene glycol is non-hazardous in accordance with the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

16. Other Information

The information provided in this Safety Data Sheet relates only to the specific material designated herein. Rebaun International (NZ) Ltd assumes no liability for any damages related to the use or misuse of this substance.

References: Supplier MSDS: Propylene Glycol, Creation Date: 1 Feb 2005.
Revision Date: 1 Dec 2007

New Zealand Inventory of Chemicals

SDS Created: 26 May 2010

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties.

Rebain International (NZ) Ltd has compiled the information and recommendations contained in this Safety Data Sheet from sources believed to be reliable and to represent the most reasonable current opinion on the subject at the date quoted in section sixteen of the Safety Data Sheet. No warranty, guarantee or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine the environmental regulatory compliance obligations under any applicable New Zealand laws. In providing this disclaimer Rebain International (NZ) Ltd removes itself from any responsibility/liability of damages/harm caused by the information or lack thereof in this Safety Data Sheet document.

Abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists

ERMA: Environmental Risk Management Agency New Zealand

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

HSNO: Hazardous Substances and New Organisms Act 1996

NIOSH: The National Institute of Occupational Safety and Health

NZ WES-TWA: New Zealand Workplace Exposure Standard-Time Weighted Average