

1. Identification of Substance & Company

Product	
Product name	RG12+
HSNO approval	HSR002606
Approval description	Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2006
UN number	NA
DG class	NA
Proper Shipping Name	NA
Packaging group	NA
Hazchem code	NA
Uses	Coolant, antifreeze, corrosion inhibitor
Company Details	
Company	Fargo International Ltd
Address	71F Adams drive,
	Auckland.
	New Zealand
Telephone	+64 9 238 2389 [8.00 - 4.30 Mon to Fri]
Fax	+64 9 238 2399
	ephone Number: +64 21 930 795 (24 hours emergency only) Poison Centre NZ (24 hours): 0800 POISON [764 766]

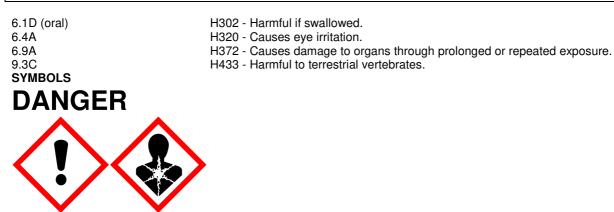
Poison Information Centre Australia (24 Hours) : 13 11 26

2. Hazard Identification

Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002606, Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2006), and is classified as follows:

Classes Hazard Statements



Other Classifications

There are no other classifications that are known to apply.

Precautionary Statements

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P260 Do not breathe vapours.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P280 Wear eye protection.
- P312 Call a POISON CENTRE or doctor/physician if you feel unwell.



P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
P308+P313 - IF exposed or concerned: Get medical advice/ attention.
P405 - Store locked up

3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Ethylene glycol	107-21-1	>85%
Ingredients not contributing to HSNO classes	mixture	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information	
that you may have been harme	ave product container or label at hand. You should call the National Poisons Centre if you feel ed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency rned: Get medical advice/ attention.
Recommended first aid facilities	Ready access to running water is recommended.
Exposure	
Swallowed	Do NOT induce vomiting. Give a glass of water to drink. Call a POISON CENTRE or doctor/physician if you feel unwell.
Eye contact	If product gets in eyes, wash material from them with running water for several minutes. If eye irritation persists: Get medical advice/attention.
Skin contact	This product is non-irritating to skin. No further measures should be required.
Inhaled	Generally, inhalation of vapours is unlikely to result in adverse health effects. If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor.
Advice to Doctor	

Treat symptomatically

5. Firefighting Measures

Fire and explosion hazards: Suitable extinguishing substances: Unsuitable extinguishing substances:	There are no specific risks for fire/explosion for this chemical. It is non-flammable. Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam. Unknown.
Products of combustion:	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.
Protective equipment:	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
Hazchem code:	NA

6. Accidental Release Measures	
Containment	If greater than 10000L is stored, secondary containment and emergency plans to manage any potential spills must be in place. In all cases design storage to prevent discharge to stormwater.
Emergency procedures	In the event of spillage alert the fire brigade to location and give brief description of hazard. Stop the source of the leak, if safe to do so. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Do not use sawdust on concentrate. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If



	this occurs contact your regional council immediately).
Clean-up method	Use absorbent (soil, sand or other inert material). Rags are not recommended for the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
Disposal	Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.
Precautions	Spill may be a slip hazard. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.

7. Storage & Handling	
Storage	Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10.
Handling	Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Avoid eye contact and inhalation of vapour, mist or aerosols.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace Exposure Stds (2016)	Ingredient Ethylene glycol	WES-TWA* ceiling: 50ppm (127mg/m ³)	WES-STEL data unavailable
(2010)	* These workplace exposure	standards are also Prescribed Exposure Stand	lards (PES) under the

* These workplace exposure standards are also Prescribed Exposure Standards (PES) under the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment		
Eyes	Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible.	
Skin	Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves if handling this substance in bulk. Gloves should be checked for tears or holes before use. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking.	
Respiratory	A respirator when airborne concentrations approach the WES (section 8). Use a respirator with an organic vapour. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.	
WES Additional Information	ation	
Not applicable		



9. Physical & Chemical Properties

10. Stability & Reactivity

Stability Conditions to be avoided	Stable Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames.
Incompatible groups Substance Specific Incompatibility	Strong acids, strong bases, oxidising agents. none known
Hazardous decomposition products Hazardous reactions	Oxides of carbon, some toxic fumes may be emitted during thermal decomposition. none known

11. Toxicological Information

Summary

IF SWALLOWED: Ingestion may cause gastrointestinal irritation, inebriation, drowsiness, nausea, vomiting and diarrhea. May cause central nervous system depression.

IF IN EYES: may cause eye irritation.

IF ON SKIN: no effect expected.

IF INHALED: Inhalation of high concentration of vapours may cause respiratory irritation and affect the central nervous system. Symptoms include dizziness, drowsiness, headaches and inebriation and possible loss of consciousness. CHRONIC TOXICITY: Long term exposure to ethylene glycol may affect the kidneys, CNS and metabolism.

Supporting Data

	9	
Acute	Oral	Using LD ₅₀ 's for ingredients, the calculated LD ₅₀ (oral, rat) for the mixture is between 300 and 2000 mg/kg. Data considered includes: ethylene glycol LD ₅₀ (oral): 1670 mg/kg bw (cat), 5500mg/kg (dog), 6610mg/kg (guinea pig).
	Dermal	Using LD ₅₀ 's for ingredients, the calculated LD ₅₀ (dermal, rat) for the mixture is >5000 mg/kg. Data considered includes: ethylene glycol LD ₅₀ (dermal): 9.53mL/kg (rabbit).
	Inhaled	No evidence of inhalation toxicity.
	Eye	The mixture is considered to be an eye irritant. Ethylene glycol is an eye irritant.
	Skin	The mixture is not considered to be a skin irritant.
Chronic	Sensitisation	No ingredient present at concentrations > 0.1% is considered a sensitizer.
	Mutagenicity	No ingredient present at concentrations > 0.1% is considered a mutagen.
	Carcinogenicity	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	Reproductive /	No ingredient present at concentrations > 0.1% is considered a reproductive or
	Developmental	developmental toxicant or have any effects on or via lactation.
	Systemic	Ethylene glycol is a known systemic toxicant. Long term exposure may affect the kidneys, CNS and metabolism.
	Aggravation of existing conditions	None known.



12. Ecological Data

	be ecotoxic towards aquatic organisms, but is harmful towards terrestrial vertebrates.
Supporting Data	
Aquatic	Using EC ₅₀ 's for ingredients, the calculated EC ₅₀ for the mixture is > 100 mg/L. Data considered includes: ethylene glycol > 100 mg/L
Bioaccumulation	No data
Degradability	No data
Soil	No data
Terrestrial vertebrate	The mixture is classed 9.3C. Using LD ₅₀ 's for ingredients, the calculated LD ₅₀ (oral, rat) for the mixture is between 500 and 2,000 mg/kg. Data considered includes: ethylene glycol LD ₅₀ (oral): 1670 mg/kg bw (cat), 5500mg/kg (dog), 6610mg/kg (guinea pig).
Terrestrial invertebrate	No evidence of toxicity towards terrestrial invertebrates.
Biocidal	no data
Environmental effect levels	No EELs are available for this mixture or ingredients

RestrictionsThere are no product-specific restrictions, however, local council and resource consent
conditions may apply, including requirements of trade waste consents.Disposal methodDisposal of this product must comply with the requirements of the Resource Management
Act for which approval should be sought from the Regional Authority. The substance
must be treated and therefore rendered non-hazardous before discharge to the
environment.Contaminated packagingRinse containers with water before disposal. Preferably re-cycle container, otherwise
send to landfill or similar.

14. Transport Information

There are no spec	ific restrictions	for this product (not a dangerous good).	
UN number:	NA	Proper shipping name:	NA
Class(es)	NA	Packing group:	NA
Precautions:	NA	Hazchem code:	NA

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002606, Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2006.

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:	
SDS	To be available within 10 minutes in workplaces storing > any quantity.
Labelling	No removal of labels and/or decanting of product into other containers can occur.
Emergency plan	Required if > 10000L is stored.
Approved handler	Not required.
Tracking	This substance is required to be tracked if > not required is present.
Bunding & secondary containment	Required if > 10000L is stored.
Signage	Not required.
Location test certificate	Not required.
Flammable zone	Not required.
Fire extinguisher	Not required.
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Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.



16. Other Information

Abbreviations	
Approval Code	Approval HSR002606, Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents
CAS Number	(Subsidiary Hazard) Group Standard 2006 Controls, EPA. www.epa.govt.nz Unique Chemical Abstracts Service Registry Number
Ceiling	Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical
Coming	agent to which a worker may be exposed at any time.
Controls Matrix	List of default controls linking regulation numbers to Matrix code (e.g. T1, 116).
EC ₅₀	Ecotoxic Concentration 50% - concentration in water which is fatal to 50% of a test
	population (e.g. daphnia, fish species)
EPA	Environmental Protection Authority (New Zealand)
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency
LIGNO	services, especially fire fighters
HSNO IARC	Hazardous Substances and New Organisms (Act and Regulations) International Agency for Research on Cancer
LEL	Lower Explosive Limit
	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
LC ₅₀	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population
	(usually rats)
MSDS (SDS)	Material Safety Data Sheet (or Safety Data Sheet)
PES	Prescribed Exposure Standard means a WES or a biological exposure standard that is
	prescribed in a regulation, a safe work instrument or an approval under HSNO (including
OTEL	group standards).
STEL	Short Term Exposure Limit - The maximum airborne concentration of a chemical or
	biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
TWA	Time Weighted Average – generally referred to WES averaged over typical work day
	(usually 8 hours)
UEL	Upper Explosive Limit
UN Number	United Nations Number
WES	Workplace Exposure Standard - The airborne concentration of a biological or chemical
	agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a
	week). The WES relates to exposure that has been measured by personal monitoring
	using procedures that gather air samples in the worker's breathing zone.
References	
nciciences	Unless otherwise stated comes from the EPA HSNO chemical classification information
Data	database (CCID) http://www.epa.govt.nz/hs/compliance/chemicals.html, for specific
Bata	chemicals.
EPA Transfer Gazettes	Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)
Controls Matrix	Part of the EPA New Zealand User Guide to the HSNO Control Regulations
WES 2013	The NZ Workplace Exposure Standards Effective from 2013, published by WorkSafe NZ
	and available on their web site – www.worksafe.govt.nz.
Other References:	Suppliers SDS
Review	
Date	Reason for review
May 2017	Not applicable – new SDS
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Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 9 940 30 80.

