

1. Identification of Substance & Company

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

Emergency Telephone Number: +64 21 930 795 (24 hours emergency only)
National 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

6.1D (oral) H302 - Harmful if swallowed. 6.4A H320 - Causes eye irritation.

6.9A H372 - Causes damage to organs through prolonged or repeated exposure.

9.3C H433 - Harmful to terrestrial vertebrates.

DANGER

SYMBOLS





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.



RG12++ Safety Data Sheet

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.

P330 - Rinse mouth.

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

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service). IF exposed or concerned: Get medical advice/ attention.

Recommended first aid

Ready access to running water is recommended.

facilities

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 contactIf product gets in eyes, wash material from them with running water for several minutes. If eye irritation persists: Get medical advice/attention.

Skin contactThis 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:

substances:

Unsuitable extinguishing

Products of combustion:

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

Unknown.

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.

alcohol resistant foam.

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

Page 2 of 6 May 2017

Product Name: RG12++



RG12++ Safety Data Sheet

this occurs contact your regional council immediately).

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

ceiling: 50ppm (127mg/m³)

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*

WES-STEL

data unavailable

* 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

Not applicable

Page 3 of 6 May 2017

Product Name: RG12++





Physical & Chemical Properties

Appearance lilac/pink clear liquid

Odour slight odour pН no data

Vapour pressure ~0.12mmHg (@ 20°C)

Viscosity no data **Boiling point** 120°C Volatile materials no data Freezing / melting point no data

Solubility miscible in water and alcohols

Specific gravity / density 1.05-1.06 @20°C

Flash point ~111°C Danger of explosion not explosive Auto-ignition temperature no data Upper & lower flammable limits no data Corrosiveness non corrosive

10. Stability & Reactivity

Stability

Conditions to be avoided Containers should be kept closed in order to avoid contamination. Keep from extreme

heat and open flames.

Incompatible groups Strong acids, strong bases, oxidising agents. none known

Substance Specific

Incompatibility

Hazardous decomposition

products

Hazardous reactions none known

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.

_			D
Sur	opor	tına	Data

Using LD50's for ingredients, the calculated LD50 (oral, rat) for the mixture is between 300 Acute Oral

and 2000 mg/kg. Data considered includes: ethylene glycol LD50 (oral): 1670 mg/kg bw

Oxides of carbon, some toxic fumes may be emitted during thermal decomposition.

(cat), 5500mg/kg (dog), 6610mg/kg (guinea pig).

Dermal Using LD₅₀'s for ingredients, the calculated LD₅₀ (dermal, rat) for the mixture is >5000

mg/kg. Data considered includes: ethylene glycol LD₅₀ (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.



RG12++ Safety Data Sheet

12. Ecological Data

Summary

This mixture is not considered to be ecotoxic towards aquatic organisms, but is harmful towards terrestrial vertebrates.

Supporting Data

Aquatic Using EC₅₀'s for ingredients, the calculated EC₅₀ for the mixture is > 100 mg/L. Data

considered includes: ethylene glycol >100mg/L

Bioaccumulation No data
Degradability No data
Soil No data

Terrestrial vertebrate The mixture is classed 9.3C. Using LD₅₀'s for ingredients, the calculated LD₅₀ (oral, rat)

for the mixture is between 500 and 2,000 mg/kg. Data considered includes: ethylene glycol LD₅₀ (oral): 1670 mg/kg bw (cat), 5500mg/kg (dog), 6610mg/kg (guinea pig).

Terrestrial invertebrate

Environmental effect levels

No evidence of toxicity towards terrestrial invertebrates.

Biocidal

No EELs are available for this mixture or ingredients

13. Disposal Considerations

Restrictions There 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 packaging Rinse containers with water before disposal. Preferably re-cycle container, otherwise

send to landfill or similar.

14. Transport Information

There are no specific restrictions for this product (not a dangerous good).

UN number:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:NAHazchem 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.

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.



KG12++ Safety Data Sheet

16. Other Information

Abbreviations

Approval HSR002606, Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents **Approval Code**

(Subsidiary Hazard) Group Standard 2006 Controls, EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

Ceiling Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical

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, I16). FC50

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

services, especially fire fighters

HSNO Hazardous Substances and New Organisms (Act and Regulations)

IARC International Agency for Research on Cancer

LEL Lower Explosive Limit

 LD_{50} Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

LC₅₀ 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)

Prescribed Exposure Standard means a WES or a biological exposure standard that is PES

prescribed in a regulation, a safe work instrument or an approval under HSNO (including

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

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

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

The NZ Workplace Exposure Standards Effective from 2013, published by WorkSafe NZ **WES 2013**

and available on their web site - www.worksafe.govt.nz.

Other References: Suppliers SDS

Review

Reason for review Date May 2017 Not applicable - new SDS

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.

