

# 1. Identification of Substance & Company

Product

Product name HD400C Concentrate

HSNO approval HSR002606

Approval description Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents

(Subsidiary Hazard) Group Standard 2017

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 2017), 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.

# SYMBOLS

# **DANGER**





#### 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.

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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 ŚWALLOWED: 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 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.

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:

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.

Unsuitable extinguishing

substances:

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

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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

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 WorkplaceIngredientWES-TWAWES-STELExposure StdsEthylene glycolceiling: 50ppm (127mg/m³)data unavailable

# **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

## 9. Physical & Chemical Properties

Appearance green clear liquid
Odour slight odour
pH no data

Vapour pressure ~0.12mmHg (@ 20°C)

Viscosity no data Boiling point 120°C

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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

Stable 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

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

**Hazardous reactions** 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.

Sunno		Data
Subbo	rrina	Data

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

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

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

Using LD $_{50}$ 's for ingredients, the calculated LD $_{50}$  (dermal, rat) for the mixture is >5000 Dermal

mg/kg. Data considered includes: ethylene glycol LD<sub>50</sub> (dermal): 9.53mL/kg (rabbit).

Inhaled No evidence of inhalation toxicity.

The mixture is considered to be an eye irritant. Ethylene glycol is an eye irritant. Eve

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.

Ethylene glycol is a known systemic toxicant. Long term exposure may affect the kidneys, **Systemic** 

CNS and metabolism.

Aggravation of

existing conditions

None known.

## **Ecological Data**

# Summary

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

## **Supporting Data**

Using EC<sub>50</sub>'s for ingredients, the calculated EC<sub>50</sub> for the mixture is > 100 mg/L. Data Aquatic

considered includes: ethylene glycol >100mg/L

**Bioaccumulation** No data Degradability No data Soil No data

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**Terrestrial vertebrate** The mixture is classed 9.3C. Using LD<sub>50</sub>'s for ingredients, the calculated LD<sub>50</sub> (oral, rat)

for the mixture is between 500 and 2,000 mg/kg. Data considered includes: ethylene glycol LD<sub>50</sub> (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

# 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 method

Disposal of this product must comply with the Hazardous Substances (Disposal) Notice

2017 and 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** Disposal of contaminated packaging must comply with the Hazardous Substances

(Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible

reuse or recycle packaging.

# 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 2017. All ingredients appear on the NZIoC.

# 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.

Inventory An inventory of all hazardous substances must be prepared and maintained.

Packaging All hazardous substances should be appropriately packaged including substance

manufactured for own use or have been supplied

Labelling Must comply with the Hazardous Substances (Labelling) Notice 2017.

Emergency plan Required if > 10000L is stored.

Certified handler Not required.

Tracking Not required.

Bunding & secondary containment Required if > 10000L is stored.

Signage Not required.
Location compliance 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.



## 16. Other Information

**Abbreviations** 

Approval Code

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

(Subsidiary Hazard) Group Standard 2017 Controls, EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

**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

services, especially fire fighters

**HSNO** Hazardous Substances and New Organisms (Act and Regulations)

International Agency for Research on Cancer

**LEL** Lower Explosive Limit

**LD**<sub>50</sub> Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

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

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

database (CCID).

Controls EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances)

Regulations 2017, www.legislation.govt.nz

WES The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available

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

Other References: Suppliers SDS

Review

DateReason for reviewMay 2017Not applicable – new SDSNovember 2019Update to Group Standard

## 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.

