

1. Identification of Substance & Company

Product

Product nameAdBlueProduct codeDGL01.02HSNO approvalHSR002585,

Approval description Fuel Additives (Subsidiary Hazard) Group Standard 2020

UN number NA
Proper Shipping Name NA
DG class NA
Packaging group NA
Hazchem code NA

Uses Used for NOx reduction in exhaust gases from vehicles with diesel engines

Company Details

Company DGL Manufacturing LTD 18 Sherson Street

Gate Pa Tauranga, 3112 New Zealand 0800 232 583

Telephone

Emergency Telephone Number: 0800-243 622

2. Hazard Identification

NZ Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002585, Fuel Additives (Subsidiary Hazard) Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

GHS 7 Classes

Hazard Statements

Eye irritant category 2

H319 - Causes serious eye irritation.

SYMBOLS

WARNING



Other Classifications

There are no other classifications that are known to apply.

Precautionary Statements

Prevention P103 - Read label before use.

P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves/eye protection.

Response 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.

Storage no storage statement

Disposal P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

3. Composition / Information on Ingredients

| Component | CAS/ Identification | Conc (%) |
|-----------|---------------------|----------|
| urea | 57-13-6 | 32.5% |
| water | 7732-18-5 | 67.5% |

This is a commercial product whose exact ratio of components may vary slightly. 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).

Recommended first aid

facilities

Ready access to running water is recommended. Accessible eyewash is recommended.

Exposure

Swallowed

Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. Do NOT

induce vomiting. Give a glass of water to drink.

Eve contact Skin contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention.

Take off contaminated clothing and wash before re-use.

Inhaled

Generally, inhalation of vapours/dusts 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:

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 alcohol resistant foam.

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.

No special measures are required.

Protective equipment:

Hazchem code:

NA

In all cases design storage to prevent discharge to storm water.

Containment

Emergency procedures If a significant spill occurs:Stop leak if safe/necessary; Isolate area. Collect spill - see below; Transfer to container for disposal. Dispose of according to guidelines below (Section

13).

Use absorbent (soil, sand or other inert material). Rags are not recommended for the Clean-up method

6. Accidental Release Measures

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 No special protective clothing is normally necessary.

7. Storage & Handling

Avoid storage of harmful substances with food. Store out of reach of children. Containers Storage

> 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.





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 Ingredient WES-TWA WES-STEL

Exposure Stds No ingredient listed

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

General

Personal Protective Equipment (PPE) should not be used as the primary means of exposure protection, except in the event of an accident or emergency situation or where all other means of protection have proven to inadequate. Clean PPE after use or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct fitting and use of respirators and where applicable the cleaning of respirators should be undertaken.

Eyes



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible. Select eye protection in accordance with AS/NZS 1337.

Skin

Protective gloves and clothing are not normally necessary. However, it is prudent to wear gloves, e.g. PVC gloves, when handling chemicals in bulk or for an extended period of

time

Respiratory

Respirator is not required under normal use. Ensure adequate natural ventilation. If product is being used in confined conditions, the use of a mask or respirator with a type A filter may be preferred.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance colourless liquid ammoniacal odour

Odour Threshold no data pН no data Freezing/melting point -11.5°C **Boiling Point** 100°C Flashpoint no data **Flammability** non flammable Upper & lower flammable limits no LEL or UEL Vapour pressure 0.006kPa Vapour density no data

Specific gravity/density 1.09 (water = 1)
Solubility miscible in water
Partition coefficient no data

Auto-ignition temperature no Decomposition temperature 100°C
Viscosity no data
Particle Characteristics no data





10. Stability & Reactivity

Stability Stable

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

and open flames.

Incompatible groups **Substance Specific**

Oxidisers, e.g. bleach, nitrates, nitrites.

none known

Incompatibility

Hazardous decomposition

products

Oxides of carbon and nitrogen, ammonia,

Hazardous reactions none known

11. Toxicological Information

Summary

IF SWALLOWED: large quantities may lead to nausea and vomiting.

IF IN EYES: causes irritation, lachrymation, redness and pain.

IF ON SKIN: prolonged contact may result in irritation.

IF INHALED: vapours may cause respiratory irritation.

Supporting Data

Acute Oral Using LD50's for ingredients, the Acute Toxicity Estimate (ATE) (oral) for the mixture is

>2,000 mg/kg.

Aspiration This mixture is not considered an aspiration hazard.

Dermal Using LD50's for ingredients, the Acute Toxicity Estimate (ATE) (dermal) for the mixture is

>2,000 mg/kg.

Using LD₅₀'s for ingredients, the Acute Toxicity Estimate (ATE) (inhalation) for the mixture Inhaled

is >5mg/L/4h.

Eye The mixture is considered to be an eye irritant, because urea is considered an eye irritant

in more concentrated form.

The mixture is not considered to be a skin irritant. Skin

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 No ingredient present at concentrations > 1% is considered a target organ toxicant.

Aggravation of None known.

existing conditions

12. Ecological Data

This mixture is not considered ecotoxic. In all cases prevent run-off to drains, sewers and waterways.

Supporting Data

Aquatic Using EC₅₀'s for ingredients, the calculated acute EC₅₀ for the mixture is > 1mg/L. Data

considered includes: Urea: LC₅₀ (4 days) 6.81 - 28 g/L (fish), EC₅₀ (24 h) 10 g/L (aquatic

invertebrates).

Bioaccumulation Urea: log Kow -2.97- -2.26, not likely to bioaccumulate.

Degradability Urea degrades readily. Soil No evidence of soil toxicity.

Terrestrial vertebrate See acute toxicity.

Terrestrial invertebrate No evidence of toxicity towards terrestrial invertebrates.

Biocidal no data





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

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

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

IMDG

UN number: NA Proper shipping name: Not regulated

Class(es) NA Packing group: NA Precautions: NA EmS NA

IATA

UN number: NA Proper shipping name: Not regulated

Class(es) NA Packing group: NA
Precautions: NA ERG Guide NA

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002585, Fuel Additives (Subsidiary Hazard) Group Standard 2020. All ingredients appear on the New Zealand Inventory of Chemicals NZIoC.

Specific Controls

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 substances that

have been decanted, transferred or manufactured for own use or have been supplied

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

Emergency plan Not required. Certified handler Not required. Tracking Not required. Bunding & secondary containment Not required. 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 HSR002585, Fuel Additives (Subsidiary Hazard) Group Standard 2020 Controls, **Approval Code**

EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

Ecotoxic Concentration 50% - concentration in water which is fatal to 50% of a test EC50

population (e.g. daphnia, fish species)

EPA Environmental Protection Authority (New Zealand)

Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised GHS

edition, 2017, published by the United Nations.

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

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

LC₅₀ Lethal Concentration 50% - concentration in air which is fatal to 50% of a test population

(usually rats)

NZIoC New Zealand Inventory of Chemicals

Short Term Exposure Limit - The maximum airborne concentration of a chemical or **STEL**

biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

STOT RE System Target Organ Toxicity – Repeated Exposure System Target Organ Toxicity - Single Exposure STOT SE

Time Weighted Average - generally referred to WES averaged over typical work day **TWA**

(usually 8 hours)

UEL Upper Explosive Limit United Nations Number **UN Number**

Workplace Exposure Standard - The airborne concentration of a biological or chemical WFS

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).

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

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

Date Reason for review July 2024 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 GHS 7 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 21 1040951.

