Caskade Firedog Safety Data Sheet

1. Identification of Substance & Company

Product

Product name Caskade Firedog

Product code N

HSNO approval HSR002526

Approval description Cleaning Products (Corrosive) Group Standard 2020

UN number 171

Proper Shipping Name CAUSTIC ALKALI LIQUID, N.O.S. (contains potassium hydroxide)

DG class 8
Packaging group || Hazchem code 2R

Uses oven and hot plate cleaner

Company Details

Company Integra Industries Ltd
Address 21A Grosvenor St
South Dunedin

Telephone 0800 667 843
Website www.integraindustries.co.nz

Emergency Telephone Number: 0800 764 766

2. Hazard Identification

Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002526, Cleaning Products (Corrosive) 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

Metal corrosive category 1 H290 - May be corrosive to metals.

Skin corrosive category 1B H314 - Causes severe skin burns and eye damage.

Eye damage category 1 H318 - Causes serious eye damage. Acute toxicity category 4 (oral) H302 - Harmful if swallowed.

SYMBOLS

DANGER





Other Classifications

There are no other classifications that are known to apply.

Precautionary Statements

Prevention P102 - Keep out of reach of children.

P103 - Read label before use.

P234 - Keep only in original container.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray*.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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Accessible eyewash is

Response P101 - If medical advice is needed, have product container or label at hand.

P390 - Absorb spillage to prevent material damage.

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

P330+P331 - Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P363 - Wash contaminated clothing before reuse.

P304+340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P310 - Immediately call a POISON CENTRE or doctor/physician.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTRE or doctor/physician.

P406 - Store in a corrosive resistant container with a resistant inner liner. Storage

P405 - Store locked up.

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

3. Composition / Information on Ingredients

Component	CAS/ Identification	Concentration
Potassium hydroxide	1310-58-3	20-40%
Triethanolamine	102-71-6	1-10%
Ingredients not contributing to GHS classes	Mixture	balance

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

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 burned, harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid Ready access to running water is recommended.

facilities recommended.

Exposure

Swallowed IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Rinse

> mouth. DO NOT INDUCE vomiting. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or

doctor/physician.

Skin contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower. Wash contaminated clothing before reuse. Immediately call a

POISON CENTRE or doctor/physician.

Inhaled IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

breathing. Immediately call a POISON CENTRE or doctor/physician.

Advice to Doctor

Treat symptomatically

5. Firefighting Measures

Fire and explosion hazards:

Suitable extinguishing

substances:

Unsuitable extinguishing

substances:

Unknown.

Products of combustion:

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke.

There are no specific risks for fire/explosion for this chemical. It is non-flammable.

Water. May form toxic mixtures in air and may accumulate in sumps, pits and other

low-lying spaces, forming potentially explosive mixtures.

Carbon dioxide, extinguishing powder, foam, fog sprays.

Protective equipment: Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat

and eye protection.

Hazchem code: 2R

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6. Accidental Release Measures

Containment If greater than 100L 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.

In the event of spillage alert the fire brigade to location and give brief description of **Emergency procedures**

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. 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.

Mop up and collect recoverable material into labelled containers for recycling or Disposal

salvage. Recycle containers wherever possible. This material may be suitable for

approved landfill. Dispose of only in accord with all regulations.

Slippery when spilt. Wear protective equipment to prevent skin and eye contamination

and the inhalation of vapours. Work up wind or increase ventilation.

7. Storage & Handling

Precautions

Storage Store locked up. Avoid storage of harmful substances with food. Store out of reach of

children. Store in original container only. 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. Containers (and outer packaging) must bear the prescribed labelling, including the Hazchem code, UN

number, flammability warning and name of contents.

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 skin and eye contact and inhalation of vapour, fumes, mist or aerosols.

Take off immediately all contaminated clothing.

To dilute, add product to water and never water to this product.

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	potassium hydroxide	2mg/m³ (ceiling)	not established
	,	5 (5/	
	triethanolamine	5mg/m ³	not established

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. Protect eyes with goggles, safety glasses or full face mask. Avoid wearing contact lenses. Select eye protection in accordance with AS/NZS 1337.

Eyes



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Skin



Avoid any skin contact. Wear overalls, rubber boots and impervious gloves. PVC chemical resistantl rubber gloves are recommended. PVA gloves are not recommended. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use. Protective clothing must comply with AS 2919, AS3765.1 or AS3765.2. PVC or rubber boots must comply with AS/NZS 2210.2 and selected and maintained in accordance with AS/NS2210.1. 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). Respirators must have filters appropriate to the duty and comply with AS/NZS1716 and selected, used and maintained in accordance with AS/NS 1715. Use a respirator with a particulate filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Fit testing and clear guidelines and training for use and maintenance of PPE are necessary.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance liquid not specified Odour **Odour Threshold** no data рΗ 13.5 Freezing/melting point no data **Boiling Point** no data Flashpoint non flammable Flammability non flammable Upper & lower flammable limits no LEL or UEL

Upper & lower flammable limits no LEL no data Vapour pressure no data Vapour density no data Specific gravity/density 1.25

Solubility miscible in water

Partition coefficientno dataAuto-ignition temperatureno dataDecomposition temperatureno dataViscosityno dataParticle Characteristicsno 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 Acids, oxidising agents.

Substance Specific none known Incompatibility

Hazardous decomposition None known

products

Hazardous reactions none known

11. Toxicological Information

Summary

IF SWALLOWED: may cause burns to the mouth and throat.

IF IN EYES: may cause blindness, burns of the eye

IF ON SKIN: may cause blisters, burns, pain.

IF INHALED: vapours may cause respiratory irritation.

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Supporting Data

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

is between 300 and 2,000 mg/kg. Data considered includes: potassium hydroxide 273

mg/kg (rat), triethanolamine 2200 mg/kg bw (rabbit).

Aspiration This mixture is not considered an aspiration hazard.

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

mixture is >2,000 mg/kg.

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

mixture is >5mg/L/4h.

Eye The mixture is considered to be corrosive to the eye, because some of the ingredients

(potassium hydroxide) present at >3% are considered eye corrosives.

Skin The mixture is considered to be corrosive to the skin, because some of the ingredients

(potassium hydroxide) present at >5% are considered skin corrosives.

Sensitisation No ingredient present at concentrations > 0.1% is considered a sensitizer. Chronic

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.

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

Aggravation of None known. existing conditions

12. Ecological Data

Summary

This mixture is not classed as ecotoxic towards aquatic organisms, however the pH may affect any aquatic organisms. In all cases prevent run-off to drains, sewers and waterways.

Supporting Data

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

considered includes: potassium hydroxide 80 mg/l (96hr) fish.

Bioaccumulation No data No data Degradability

Soil This mixture is not considered ecotoxic towards soil organisms.

Terrestrial vertebrate See acute toxicity.

Terrestrial invertebrate No evidence of ecotoxicity 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 of this product must comply with the Hazardous Substances (Disposal) Notice Disposal method

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

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for transport.

UN number: Proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S. 1719

(contains potassium hydroxide)

Class(es) Packing group: Ш **CORROSIVE Precautions:** Hazchem code: 2R

IMDG

UN number: 1719 CAUSTIC ALKALI LIQUID, N.O.S. Proper shipping name:

(contains potassium hydroxide)

Class(es) Packing group:

CORROSIVE Precautions: EmS F-A, S-B

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IATA

Class(es)

UN number: 1719 Proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S.

(contains potassium hydroxide)

Packing group:

Precautions: CORROSIVE

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002526, Cleaning Products (Corrosive) 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 decented transferred or manufactured for own use

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 Required if > 100L is stored.

Certified handler Not required.

Tracking Not required..

Bunding & secondary containment Required if > 100L is stored.

Signage Required if > 250L is stored.

Location compliance certificate Required if >250L are stored

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 HSR002526, Cleaning Products (Corrosive) Group Standard 2020 Controls,

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

population (e.g. daphnia, fish species)

EPA Environmental Protection Authority (New Zealand)

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

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)

International Agency for Research on Cancer

LEL Lower Explosive Limit

LD₅₀ 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)

NZIoC New Zealand Inventory of Chemicals

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

STOT RE System Target Organ Toxicity – Repeated Exposure

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STOT SE System Target Organ Toxicity – Single Exposure

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 reviewFebruary 2025Not 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.

