



1. Identification of Substance & Company

Product	
Product name	Hand Cleaner Plus
Other names	NA
Product code	6081520010
HSNO approval	HSR002552, Cosmetic Products Group Standard 2017
UN number	NA
Packaging group	NA
Hazchem code	NA
Uses	Hand cleaner for normal workshop use
Company Details	
Company	EDL Fasteners LTD
Address	70 Richard Pearse Drive Mangere, Manukau New Zealand
Telephone	+64 9 257 5536
Fax	+64 9 257 5844
Website	www.edlfast.co.nz

Emergency Telephone Number: 0800-764 766

2. Hazard Identification

Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002552, Cosmetic Products Group Standard 2017), and is classified as follows:

Classes	Hazard Statements
6.4A	H320 - Causes eye irritation.

SYMBOLS



Other Classifications

There are no other classifications that are known to apply.

Precautionary Statements

P103 - Read label before use.

If handling this substance in bulk: P280 - Wear eye protection.

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.

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

3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (% w/w)
Fatty alcohol ethoxylate (3EO)	69011-36-5	5-7%
Sulfonic acids, C14-17-secalkane, sodium salts	97489-15-1	3-5%
D-Glucopyranose, oligomeric, C8-16-alkyl glycosides	141464-42-8	1-1.5%
Orange terpene	8028-48-6	0.2-0.5%
Titanium dioxide	13463-67-7/1317-80-2	0.2-0.5%
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	<0.1%

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



4. First Aid

General Information

You should call the National Poisons Centre if you feel that you may have been harmed, or irritated by this product.

Recommended first aid facilities	Ready access to running water is required. Accessible eyewash is recommended.
Exposure	
Swallowed	IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. Contact a doctor if you feel unwell.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart.
Skin contact	If skin irritation occurs discontinue use as a hand cleaner. Get medical advice/attention.
Inhaled	Generally, inhalation of fumes 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:	There are no specific risks for fire/explosion for this chemical. It is non-flammable.
Suitable extinguishing substances:	Carbon dioxide, extinguishing powder, foam, fog sprays, water jets.
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:	Not assigned.

6. Accidental Release Measures

Containment	There is no current legal requirement for containment of this product.
Emergency procedures	In the event of spillage alert the fire brigade to location and give brief description of hazard. Slippery when spilled. Contain using sand, earth or vermiculite.
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	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 in a cool, dry place. 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 skin and eye contact and inhalation of vapour.



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 $3\text{mg}/\text{m}^3$ for respirable particulates and $10\text{mg}/\text{m}^3$ for inhalable particulates when limits have not otherwise been established.

NZ Workplace Exposure Std	Ingredient	WES-TWA	WES-STEL
	No ingredients 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

Eyes	Protective eyewear is not normally necessary when using this product. However, it is always prudent to use protective eyewear if splashes are likely.
Skin	If discomfort is felt (e.g., if pre-existing conditions exist, such as dermatitis, cuts or sensitive skin), avoid contact.
Respiratory	A respirator when airborne concentrations approach the WES (section 8) should be used. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

WES Additional Information

No additional information

9. Physical & Chemical Properties

Appearance	paste
Odour	characteristic odour
pH	7
Vapour pressure	no data
Viscosity	no data
Boiling point	no data
Volatile materials	no data
Freezing / melting point	not reported
Solubility	soluble in water
Specific gravity / density	$1\text{g}/\text{cm}^3$ at 20°C
Flash point	no data
Danger of explosion	no data
Auto-ignition temperature	no data
Upper & lower flammable limits	no data
Corrosiveness	not corrosive

10. Stability & Reactivity

Stability	This product is thermally stable when stored and used as directed.
Conditions to be avoided	None known
Incompatible groups	Strong oxidising agents, strong alkalis, strong acids,
Hazardous decomposition products	In the case of fire may develop hazardous decomposition products including carbon oxides and toxic pyrolysis products.
Hazardous reactions	Hazardous polymerisations will not occur.

11. Toxicological Information

Summary

IF IN EYES: direct contact may cause eye irritation.

Supporting Data

Acute	Oral	No data for mixture is available. The estimated LD_{50} (oral, rat) for the mixture is $>5000\text{mg}/\text{kg}$.
	Dermal	No data for mixture is available. The estimated LD_{50} (dermal, rat) for the mixture is $>5,000\text{ mg}/\text{kg}$.
	Inhaled	No data for mixture is available. The estimated LC_{50} (inhalation, rat) for the mixture is $>5,000\text{ ppm}$. The substance is non volatile.



	Eye	Direct exposure of the liquid may produce eye discomfort.
	Skin	The mixture is not classified as a skin irritant. However repeated exposure may lead to defatting, drying and irritation of sensitive skin.
Chronic	Sensitisation	This product contains orange oil, which contains d-Limonene. D-Limonene is not considered to be sensitising, but autoxidation products of d-Limonene have been shown in several studies to be skin sensitisers.
	Mutagenicity	No data for mixture is available. No ingredient present at concentrations > 0.1% is considered a mutagen.
	Carcinogenicity	No data for mixture is available. No ingredient present at concentrations > 0.1% is considered a carcinogen.
	Reproductive / Developmental	No data for mixture is available. No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation.
	Systemic Aggravation of existing conditions	No data for mixture is available. None known.

12. Ecological Data

Summary

This mixture is not expected to be ecotoxic to the environment.

Supporting Data

Aquatic	No data for mixture is available. The estimated EC ₅₀ for the mixture is > 100 mg/L.
Bioaccumulation	No data.
Degradability	The mixture is biodegradable.
Soil	No data available for the mixture.
Terrestrial vertebrate	This product is not considered harmful to terrestrial vertebrates. No LC ₅₀ (diet) data for ingredients are available and the classification is based on the LD ₅₀ (oral) – see section 11 – oral toxicity.
Terrestrial invertebrate	The mixture is not considered harmful to terrestrial invertebrates.
Biocidal	Not applicable

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

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Not considered a hazardous substance for transport.

UN number:	Not assigned	Proper shipping name:	Not applicable
Class(es):	Not applicable	Packing group:	Not applicable
Precautions:	Not applicable	Hazchem code:	Not assigned



15. Regulatory Information

This product is an approved substance under HSNO: EPA approval code: HSR002552, Cosmetic Products Group Standard 2006 (as amended July 2012)

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

Key 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

ACGIH	American Conference of Governmental Industrial Hygienists
Approval Code	EPA approval code:, HSR002552, Cosmetic Products Group Standard 2006 (as amended July 2012), Controls, EPA. www.epa.govt.nz
CAS Number	Unique Chemical Abstracts Service Registry Number
EC₅₀	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
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
MSDS (SDS)	Material Safety Data Sheet (or Safety Data Sheet)
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

Data	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID) http://www.epa.govt.nz/hs/compliance/chemicals.html , for specific chemicals.
EPA Transfer Gazettes Controls Matrix	Classifications and controls assigned for specific ingredients (consolidated gazette, 2004) 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
January 2010	Not applicable – new SDS
December 2015	update: ERMA to EPA, OSH to Worksafe NZ, update of section 11 and 12, review of classification. Transport section.
March 2020	5 yearly update

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.

