

Chemtools Pty Ltd

Chemwatch: 5656-64

Version No: 3.1

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

nemwatch Hazard Alert Code: 3

Issue Date: **20/02/2024** Print Date: **21/02/2024** S.GHS.AUS/NZ.EN.E

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product name	Industrial Cleaner & Degreaser - Concentrate
Chemical Name	Not Applicable
Chemical formula	Not Applicable
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Use according to manufacturer's directions.
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Details of the manufacturer or supplier of the safety data sheet

Registered company name	Chemtools Pty Ltd	Chemtools Ltd
Address	Unit 2, 14 - 16 Lee Holm Road St Marys NSW 2760 Australia	15/62 Factory Road Belfast Christchurch 8051 New Zealand
Telephone	1300 738 250, +61 2 9833 9766	+64 3 323 4177
Fax	+61 2 9623 3670	+61 2 9623 3670
Website	www.chemtools.com.au	www.chemtools.co.nz
Email	sales@chemtools.com.au	sales@chemtools.com.au

Emergency telephone number

Association / Organisation	Poisons Information Centre	National Poisons Centre
Emergency telephone numbers	13 11 26	0800 764 766
Other emergency telephone numbers	Not Available	Not Available

SECTION 2 Hazards identification

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable
Classification ^[1]	Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the Aquatic Environment Acute Hazard Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Hazard pictogram(s)	
Signal word	Danger

Hazard statement(s)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H401	Toxic to aquatic life.

Precautionary statement(s) Prevention

P280	Wear protective gloves, protective clothing, eye protection and face protection.
P261	Avoid breathing mist/vapours/spray.
P273	Avoid release to the environment.
P264	Wash all exposed external body areas thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) 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.
P310	Immediately call a POISON CENTER/doctor/physician/first aider.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Not regulated for transport of Dangerous Goods.

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification ^[1]	Serious Eye Damage/Eye Irritation Category 1
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
Determined by Chemwatch using GHS/HSNO criteria	8.3A

Label elements

Hazard pictogram(s)	
Signal word	Danger

Hazard statement(s)

Causes serious eye damage.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

H318

P280	Wear protective gloves, protective clothing, eye protection and face protection.	

Precautionary statement(s) 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.	
P310	Immediately call a POISON CENTER/doctor/physician/first aider.	

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name	
64-02-8	<20	EDTA tetrasodium salt	
68439-46-3	<20	alcohols C9-11 ethoxylated	
Not Available	balance	Ingredients determined not to be hazardous	
Legend: 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available			

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. 		
Skin Contact	 skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. 		
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. 		
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. 		

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances.

In such an event consider:

- foam.
- dry chemical powder.
- carbon dioxide.

Special hazards arising from the substrate or mixture

Advice for firefighters

	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. 	
	Use fire fighting procedures suitable for surrounding area.	
Fire Fighting	DO NOT approach containers suspected to be hot.	
	Cool fire exposed containers with water spray from a protected location.	
	If safe to do so, remove containers from path of fire.	
	Equipment should be thoroughly decontaminated after use.	
	The material is not readily combustible under normal conditions.	
	However, it will break down under fire conditions and the organic component may burn.	
	Not considered to be a significant fire risk.	
	Heat may cause expansion or decomposition with violent rupture of containers.	
	 Decomposes on heating and may produce toxic fumes of carbon monoxide (CO). 	
	May emit acrid smoke.	
Fire/Explosion Hazard	Decomposes on heating and produces toxic fumes of:	
	carbon dioxide (CO2)	
	nitrogen oxides (NOx)	
	phosphorus oxides (POx)	
	metal oxides	
	other pyrolysis products typical of burning organic material.	
	May emit poisonous fumes.	
	May emit corrosive fumes.	

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Environmental hazard - contain spillage. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Environmental hazard - contain spillage. Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Neutralise/decontaminate residue (see Section 13 for specific agent).

- Wash area and prevent runoff into drains.
- After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.
- ▶ If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling	 DO NOT allow clothing wet with material to stay in contact with skin Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
 b Store in original containers. b Keep containers securely sealed. c Store in a cool, dry, well-ventilated area. c Store away from incompatible materials and foodstuff containers. c Protect containers against physical damage and check regularly for leaks. c Observe manufacturer's storage and handling recommendations contained within this SDS. 	

Conditions for safe storage, including any incompatibilities

 Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. 		
Storage incompatibility	None known	

X — Must not be stored together

х

0 — May be stored together with specific preventions

+ — May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

SECTION 8 Exposure controls / personal protection

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Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
EDTA tetrasodium salt	82 mg/m3	900 mg/m3	5,500 mg/m3
EDTA tetrasodium salt	75 mg/m3	830 mg/m3	5,000 mg/m3

Ingredient	Original IDLH	Revised IDLH
EDTA tetrasodium salt	Not Available	Not Available
alcohols C9-11 ethoxylated	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
EDTA tetrasodium salt	E	≤ 0.01 mg/m³
alcohols C9-11 ethoxylated	E	≤ 0.1 ppm
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.	

Exposure controls

	Engineering controls are used to remove a hazard or place a engineering controls can be highly effective in protecting wo provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activ Enclosure and/or isolation of emission source which keeps a that strategically "adds" and "removes" air in the work envirc designed properly. The design of a ventilation system must n Employers may need to use multiple types of controls to pre General exhaust is adequate under normal operating conditi Correct fit is essential to obtain adequate protection. Provide contaminants generated in the workplace possess varying "of fresh circulating air required to effectively remove the contar	rkers and will typically be independent of wor ity or process is done to reduce the risk. a selected hazard "physically" away from the onment. Ventilation can remove or dilute an ai match the particular process and chemical or vent employee overexposure. ions. If risk of overexposure exists, wear SAA a adequate ventilation in warehouse or closed escape" velocities which, in turn, determine th	ker interactions to worker and ventilation r contaminant if contaminant in use. approved respirator. I storage areas. Air
	Type of Contaminant:		Air Speed:
	solvent, vapours, degreasing etc., evaporating from tank (in still air)		0.25-0.5 m/s (50-100 f/min)
	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)		0.5-1 m/s (100-200 f/min.)
Appropriate engineering controls	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)		1-2.5 m/s (200-500 f/min)
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).		2.5-10 m/s (500-2000 f/min.)
	Within each range the appropriate value depends on:		
	Lower end of the range	Upper end of the range	
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity	
	3: Intermittent, low production.	3: High production, heavy use	
	4: Large hood or large air mass in motion	4: Small hood - local control only	

generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Individual protection measures, such as personal protective equipment



- Safety glasses with side shields.
- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]

Eye and face protection

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.

	Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].
Skin protection	See Hand protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in prodisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, beits and watch-bands should be removed and destroyed. The salection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfurmed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: Inequency and duration of contact, chemical resistance of glove material, glove thickness and dexterify Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When nonly bief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.1.0 to rational equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-ter
Body protection	See Other protection below
Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Industrial Cleaner & Degreaser - Concentrate

Material	CPI
BUTYL	А
NEOPRENE	А
VITON	А

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
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Part Number:

Version No: 3.1

Industrial Cleaner & Degreaser - Concentrate

up to 10

1000

NATURAL RUBBER	С
PVA	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Ansell Glove Selection

Glove — In order of recommendation
AlphaTec® 15-554
AlphaTec® Solvex® 37-185
AlphaTec® 38-612
AlphaTec® 58-008
AlphaTec® 58-530B
AlphaTec® 58-530W
AlphaTec® 58-735
AlphaTec® 79-700
AlphaTec® Solvex® 37-675
DermaShield™ 73-711

The suggested gloves for use should be confirmed with the glove supplier.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

_	up to 10	1000	Class1 P2	-
	up to 50	1000	-	A-AUS / Class 1 P2
	up to 50	5000	Airline *	-
	up to 100	5000	-	A-2 P2
ove,	up to 100	10000	-	A-3 P2
	100+			Airline**

A-AUS /

* - Continuous Flow ** - Continuous-flow or positive pressure demand A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

Appearance	Liquid.		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product		
Ingestion	Accidental ingestion of the material may be damagin	g to the health of the individual.	
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	If applied to the eyes, this material causes severe ey	e damage.	
Chronic	Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.		
Industrial Cleaner &	ΤΟΧΙΟΙΤΥ	IRRITATION	
Degreaser - Concentrate	Not Available	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Oral (Rat) LD50: 630 mg/kg ^[2]	Eyes (rabbit): 1.9 mg	
EDTA tetrasodium salt		Eyes (rabbit):100 mg/24h-moderate	
		Skin (rabbit):500 mg/24h-moderate *[BASF]	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye (human): SEVERE	
alcohols C9-11 ethoxylated	Inhalation(Rat) LC50: >1.6 mg/l4h ^[1]	Eye: adverse effect observed (irritating) ^[1]	
	Oral (Rat) LD50: 1378 mg/kg ^[2]	Skin: no adverse effect observed (not irritating) ^[1]	
		Skin: SEVERE * [SHELL CCINFO 1441905]	
Legend:	1. Value obtained from Europe ECHA Registered Su	bstances - Acute toxicity 2. Value obtained from manufacturer's SDS.	

Industrial Cleaner & Degreaser - Concentrate	No significant acute toxicological data identified in literature search.	
EDTA TETRASODIUM SALT	* Sigma Aldrich - for the dihydrate Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of	

	and duration of exposure to the irritating substance exposure due to high concentrations of irritating s The disorder is characterized by difficulty breathin For ethylendiaminetetraacetic acid (EDTA) and its EDTA is a strong organic acid, with a high affinity ions (such as lad and mercury), resulting in highly commercially to either promote or inhibit chemical EDTA and its salts are expected to be absorbed b They cause mild skin irritation, and severe eye irri to scavenge the trace metals used and required b mineral deficiencies, such as zinc deficiency. The EDTA and its salts are mostly eliminated through bound to it. Trisodium EDTA has not been found to cause can levels likely to be encountered.	substance (often particles) and is of ang, cough and mucus production. a salts: for alkaline-earth ions (for example stable chelate complexes. The a I reactions, depending on applicat by the lungs and the gastrointestin itation. The greatest risk in the hu by the body. The binding of divaler se appear to be responsible for all the urine, with 5% eliminated via the	completely reversible after exposure ceases. le, calcium and magnesium) and heavy-meta bility of EDTA to complex is used tion. al tract; absorption through skin is unlikely. man body will occur when the EDTA attempt nt and trivalent cations by EDTA can cause I of the known pharmacological effects. the bile, along with the metal ions which are
ALCOHOLS C9-11 ETHOXYLATED	Somnolence, ataxia, diarrhoea recorded. Polyethers (such as ethoxylated surfactants and p then form complex mixtures of oxidation products Animal testing reveals that whole the pure, non-oo sensitisers. The oxidization products also cause in Humans have regular contact with alcohol ethoxyl detergents and other cleaning products. Exposure the skin or eyes. Studies of acute toxicity show the No death due to poisoning with alcohol ethoxylate toxicity through swallowing and skin contact. Animal studies show these chemicals may produc lethargy. Slight to severe irritation occurred when These chemicals show no indication of genetic to: substantially lower than that of nonylphenol ethox Some of the oxidation products of this group of su As they cause less irritation, nonionic surfactants tendency to auto-oxidise also increases their irrita dermatitis (ACD) by patch testing. Both laboratory and animal testing has shown tha mutations or cancer. No adverse reproductive or Tri-ethylene glycol ethers undergo enzymatic oxid doses, they may cause depressed reflexes, flacci animal. However, repeated exposure may cause of developmental defects. The material may produce severe irritation to the irritants may produce conjunctivitis. The material may cause severe skin irritation after swelling, the production of vesicles, scaling and th	xidised surfactant is non-sensitizin rritation. lates through a variety of industria e to these chemicals can occur thi at relatively high volumes would h es has ever been reported. Studie ce gastrointestinal irritation, stoma undiluted alcohol ethyoxylates we xicity or potential to cause mutation ylates. ubstances may have sensitizing pri are often preferred to ionic surfact tion. Due to their irritating effect it there is no evidence for alcohol developmental effects were obser dation to toxic alkoxy acids. They is d muscle tone, breathing difficulty dose dependent damage to the ki eye causing pronounced inflammar r prolonged or repeated exposure	ng, many of the oxidation products are al and consumer products such as soaps, rough swallowing, inhalation, or contact with have to occur to produce any toxic response. Is show that alcohol ethoxylates have low ach ulcers, hair standing up, diarrhea and ere applied to the skin and eyes of animals. ons and cancers. Toxicity is thought to be roperties. tants in topical products. However, their is difficult to diagnose allergic contact ethoxylates (AEs) causing genetic damage, ved. may irritate the skin and the eyes. At high ora a and coma. Death may result in experimenta dneys as well as reproductive and ation. Repeated or prolonged exposure to a and may produce on contact skin redness,
Industrial Cleaner & Degreaser - Concentrate & EDTA TETRASODIUM SALT	The following information refers to contact allerge Contact allergies quickly manifest themselves as pathogenesis of contact eczema involves a cell-m skin reactions, e.g. contact urticaria, involve antibi- simply determined by its sensitisation potential: th equally important. A weakly sensitising substance stronger sensitising potential with which few indivi- noteworthy if they produce an allergic test reaction	ens as a group and may not be spi contact eczema, more rarely as u nediated (T lymphocytes) immune ody-mediated immune reactions. ne distribution of the substance an e which is widely distributed can be iduals come into contact. From a	ecific to this product. rticaria or Quincke's oedema. The reaction of the delayed type. Other allergic The significance of the contact allergen is no d the opportunities for contact with it are e a more important allergen than one with clinical point of view, substances are
Acute Toxicity	×	Carcinogenicity	x
Skin Irritation/Corrosion	*	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin	×	STOT - Repeated Exposure	×
sensitisation			

Data available to make classification

SECTION 12 Ecological information

Toxicity

Endpoint Test Duration (hr)

Species

Value Source

Continued...

Industrial Cleaner & Degreaser - Concentrate

	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species		Value	Source
	EC50	48h	Crustacea		>100mg/l	2
EDTA tetrasodium salt	NOEC(ECx)	72h	Algae or other aquatic plants		0.39mg/l	1
	EC50	72h	Algae or other aquatic plants		1.01mg/l	1
	LC50	96h	Fish		>500mg/l	Not Available
	Endpoint	Test Duration (hr)	Species	Value	e	Source
	EC50	48h	Crustacea	2.217	7-3.523mg/l	4
alcohols C9-11 ethoxylated	EC50	96h	Algae or other aquatic plants	1.4m	g/l	2
	NOEC(ECx)	720h	Fish	0.11-	0.28mg/l	2
	LC50	96h	Fish	7mg/	1	Not Available

On the basis of available evidence concerning either toxicity, persistence, potential to accumulate and or observed environmental fate and behaviour, the material may present a danger, immediate or long-term and /or delayed, to the structure and/ or functioning of natural ecosystems. Toxic to aquatic organisms.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

SECTION 13 Disposal considerations

Waste treatment methods

	Containers may still present a chemical hazard/ danger when empty.
	Return to supplier for reuse/ recycling if possible.
	Otherwise:
	If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
	Where possible retain label warnings and SDS and observe all notices pertaining to the product.
	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.
	A Hierarchy of Controls seems to be common - the user should investigate:
Product / Packaging	▶ Reduction
disposal	* Reuse
	▶ Recycling
	 Disposal (if all else fails)
	This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it
	has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and
	recycling or reuse may not always be appropriate.
	DO NOT allow wash water from cleaning or process equipment to enter drains.
	It may be necessary to collect all wash water for treatment before disposal.

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In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
Where in doubt contact the responsible authority.
▶ Recycle wherever possible.
Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable
treatment or disposal facility can be identified.
Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a
licensed apparatus (after admixture with suitable combustible material).
Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

Only dispose to the environment if a tolerable exposure limit has been set for the substance.

Only deposit the hazardous substance into or onto a landfill or sewage facility or incinerator, where the hazardous substance can be handled and treated appropriately.

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Land transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
EDTA tetrasodium salt	Not Available
alcohols C9-11 ethoxylated	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
EDTA tetrasodium salt	Not Available
alcohols C9-11 ethoxylated	Not Available

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard	
HSR002521	21 Animal Nutritional and Animal Care Products Group Standard 2020	
HSR002530	Cleaning Products Subsidiary Hazard Group Standard 2020	
HSR002535	Gases under Pressure Mixtures Subsidiary Hazard Group Standard 2020	
HSR002503	Additives Process Chemicals and Raw Materials Subsidiary Hazard Group Standard 2020	
HSR002606	Lubricants Lubricant Additives Coolants and Anti freeze Agents Subsidiary Hazard Group Standard 2020	

HSR Number	Group Standard	
HSR002612	Metal Industry Products Subsidiary Hazard Group Standard 2020	
HSR002624	N.O.S. Subsidiary Hazard Group Standard 2020	
HSR002638	Photographic Chemicals Subsidiary Hazard Group Standard 2020	
HSR002644	Polymers Subsidiary Hazard Group Standard 2020	
HSR002647	Reagent Kits Group Standard 2020	
HSR002648	Refining Catalysts Group Standard 2020	
HSR002653	Solvents Subsidiary Hazard Group Standard 2020	
HSR002670	Surface Coatings and Colourants Subsidiary Hazard Group Standard 2020	
HSR002684	Water Treatment Chemicals Subsidiary Hazard Group Standard 2020	
HSR100425	Pharmaceutical Active Ingredients Group Standard 2020	
HSR002600	Leather and Textile Products Subsidiary Hazard Group Standard 2020	
HSR002544	Construction Products Subsidiary Hazard Group Standard 2020	
HSR002549	Corrosion Inhibitors Subsidiary Hazard Group Standard 2020	
HSR002552	Cosmetic Products Group Standard 2020	
HSR002558	Dental Products Subsidiary Hazard Group Standard 2020	
HSR002565	Embalming Products Subsidiary Hazard Group Standard 2020	
HSR002571	Fertilisers Subsidiary Hazard Group Standard 2020	
HSR002573	Fire Fighting Chemicals Group Standard 2021	
HSR002578	Food Additives and Fragrance Materials Subsidiary Hazard Group Standard 2020	
HSR002585	Fuel Additives Subsidiary Hazard Group Standard 2020	
HSR002596	Laboratory Chemicals and Reagent Kits Group Standard 2020	
HSR100580	Tattoo and Permanent Makeup Substances Group Standard 2020	
HSR100757	Veterinary Medicines Limited Pack Size Finished Dose Group Standard 2020	
HSR100758	Veterinary Medicines Non dispersive Closed System Application Group Standard 2020	
HSR100759	Veterinary Medicines Non dispersive Open System Application Group Standard 2020	
HSR100592	Agricultural Compounds Special Circumstances Group Standard 2020	
HSR100756	Active Ingredients for Use in the Manufacture of Agricultural Compounds Group Standard 2020	

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

EDTA tetrasodium salt is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

Australian Inventory of Industrial Chemicals (AIIC)

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data New Zealand Inventory of Chemicals (NZIoC)

alcohols C9-11 ethoxylated is found on the following regulatory lists

 Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

 Australian Inventory of Industrial Chemicals (AIIC)

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits for dangerous goods

Additional Regulatory Information

Not Applicable

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantities
Not Applicable	Not Applicable

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Tracking Requirements

Not Applicable

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (EDTA tetrasodium salt; alcohols C9-11 ethoxylated)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (alcohols C9-11 ethoxylated)	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	No (alcohols C9-11 ethoxylated)	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

SECTION 16 Other information

Revision Date	20/02/2024
Initial Date	19/02/2024

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.