Motor Active

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L.GHS.AUS.EN

Chemwatch: 23-5578 Version No: 5.1.1.1 Safety Data Sheet according to WHS and ADG requirements

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Use according to manufacturer's directions.

Product Identifier

Product name	Meguiar's G20 - Convertible Cleaner
Synonyms	Product Code: 21-05A, G2016
Other means of identification	Not Available
Relevant identified uses of the substance or mixture and uses advised against	
Delevent identified were	Automotive.

Relevant identified uses

Details of the supplier of the safety data sheet

Registered company name	Motor Active
Address	35 Slough Business Park, Holker Street Silverwater NSW 2128 Australia
Telephone	+61 2 9737 9422 1800 350 622
Fax	+61 2 9737 9414
Website	www.motoractive.com.au
Email	andrew.spira@motoractive.com.au

Emergency telephone number

Association / Organisation	MotorActive
Emergency telephone numbers	+61 2 9737 9422 (For General Information Monday to Friday 8:30am to 5:pm)
Other emergency telephone numbers	13 11 26 (In Case of Emergency contact: Poison Information Hotline)

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

CHEMWATCH HAZARD RATINGS

	Min	Max
Flammability	1 📕	1
Toxicity	1 📕	0 = Minimum
Body Contact	3	1 = Low
Reactivity	1	3 = High
Chronic	2	4 = Extreme

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

Label elements



SIGNAL WORD	DANGER
	A
Hazard statement(s)	
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H401	Toxic to aquatic life

Supplementary statement(s)

Not Applicable

CLP classification (additional)

Not Applicable

Precautionary statement(s) Prevention

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.

Precautionary statement(s) Response

P301+P330+P331	IF SWALLOWED: 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.
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 or doctor/physician.
P321	Specific treatment (see advice on this label).
P363	Wash contaminated clothing before reuse.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Precautionary statement(s) Storage

P405 Store locked up.

Precautionary statement(s) Disposal

P501

Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
68439-46-3	1-5	alcohols C9-11 ethoxylated
6834-92-0	1-5	sodium metasilicate, anhydrous
497-19-8	0.5-1.5	sodium carbonate
68551-12-2	0.5-1.5	alcohols C12-16 ethoxylated
68478-94-4	0.5-1.5	3-isodecyloxypropanamine chloride, ethoxylated
Not Available	81-91	Ingredients determined not to be hazardous

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	 If 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.

Extinguishing media

- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. 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.
Fire/Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive. Combustion products include: carbon dioxide (CO2) nitrogen oxides (NOx) metal oxides other pyrolysis products typical of burning organic material. May emit corrosive fumes. May emit corrosive fumes.
HAZCHEM	Not Applicable

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	 Remove all ignition sources. 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	 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. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. 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. Avoid smoking, naked lights or ignition sources. 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 scap and water after handling. Work clothes should be laundered separately. 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.
Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	 Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	 Salts of ethylenediaminetetraacetic acid (EDTA): should not come into contact with strong oxidisers are incompatible with metals such as zinc, aluminum, carbon steel, copper, copper alloys, galvanized metals and nickel. in contact with metals, such as aluminum, may generate flammable hydrogen gas in contact with bases, may evolve hydrogen and oxygen Avoid strong acids, acid chlorides, acid anhydrides and chloroformates. Avoid reaction with oxidising agents

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS

ł					
	Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
	sodium metasilicate, anhydrous	Sodium metasilicate pentahydrate	6.6 mg/m3	73 mg/m3	440 mg/m3
	sodium metasilicate, anhydrous	Sodium silicate; (Sodium metasilicate)	3.8 mg/m3	42 mg/m3	250 mg/m3
	sodium carbonate	Sodium carbonate	7.6 mg/m3	83 mg/m3	500 mg/m3
	Ingredient	Original IDLH	Revised IDLH		
	alcohols C9-11 ethoxylated	Not Available	Not Available		
	sodium metasilicate, anhydrous	Not Available	Not Available		
	sodium carbonate	Not Available	Not Available		
	alcohols C12-16 ethoxylated	Not Available	Not Available		
	3-isodecyloxypropanamine chloride, ethoxylated	Not Available	Not Available		

MATERIAL DATA

Sensory irritants are chemicals that produce temporary and undesirable side-effects on the eyes, nose or throat. Historically occupational exposure standards for these irritants have been based on observation of workers' responses to various airborne concentrations. Present day expectations require that nearly every individual should be protected against even minor sensory irritation and exposure standards are established using uncertainty factors or safety factors of 5 to 10 or more. On occasion animal no-observable-effect-levels (NOEL) are used to determine these limits where human results are unavailable. An additional approach, typically used by the TLV committee (USA) in determining respiratory standards for this group of chemicals, has been to assign ceiling values (TLV C) to rapidly acting irritants and to assign short-term exposure limits (TLV STELs) when the weight of evidence from irritation, bioaccumulation and other endpoints combine to warrant such a limit. In contrast the MAK Commission (Germany) uses a five-category system based on intensive odour, local irritation, and elimination half-life. However this system is being replaced to be consistent with the European Union (EU) Scientific Committee for Occupational Exposure Limits (SCOEL); this is more closely allied to that of the USA. OSHA (USA) concluded that exposure to sensory irritants can:

cause inflammation

cause increased susceptibility to other irritants and infectious agents

lead to permanent injury or dysfunction

• permit greater absorption of hazardous substances and

+ acclimate the worker to the irritant warning properties of these substances thus increasing the risk of overexposure.

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.
	General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances. If risk of overexposure exists, wear approved respirator. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. Provide adequate ventilation in warehouses and enclosed storage areas. Air contaminants generated in the workplace possess varying

	"escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.		
	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) direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rabid air motion)		0.5-1 m/s (100-200 f/min.)
			1-2.5 m/s (200-500 f/min.)
	grinding, abrasive blasting, tumbling, high speed wheel g high rapid air motion)	enerated dusts (released at high initial velocity into zone of very	2.5-10 m/s (500-2000 f/min.)
	Within each range the appropriate value depends on:		1
	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	
	Simple theory shows that air velocity falls rapidly with distance square of distance from the extraction point (in simple cases reference to distance from the contaminating source. The air extraction of solvents generated in a tank 2 meters distant fr the extraction apparatus, make it essential that theoretical air	e away from the opening of a simple extraction pipe. Velocity general b). Therefore the air speed at the extraction point should be adjusted, velocity at the extraction fan, for example, should be a minimum of 1- om the extraction point. Other mechanical considerations, producing r velocities are multiplied by factors of 10 or more when extraction sys-	ly decreases with the accordingly, after -2 m/s (200-400 f/min) for performance deficits within stems are installed or used.
Personal protection			
Eye and face protection	 Safety glasses with side shields. Chemical goggles. 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], [AS/NZS 1336 or national equivalent] 		
Skin protection	See Hand protection below		
Hands/feet protection	 vear cnemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predispo avoid all possible skin contact. Contaminated leather items, such as shoes, belts and w The selection of suitable gloves does not only depend on the Where the chemical is a preparation of several substances, i checked prior to the application. The exact break through time for substances has to be obtain choice. Personal hygiene is a key element of effective hand care. Gk thoroughly. Application of a non-perfumed moisturiser is rect Suitability and durability of glove type is dependent on usage	sed individuals. Care must be taken, when removing gloves and othe atch-bands should be removed and destroyed. In material, but also on further marks of quality which vary from manufa the resistance of the glove material can not be calculated in advance and from the manufacturer of the protective gloves and has to be obse over must only be worn on clean hands. After using gloves, hands sho ommended. Important factors in the selection of gloves include: 374, US F739, AS/NZS 2161.1 or national equivalent). Intact may occur, a glove with a protection class of 5 or higher (break 10.1 or national equivalent) is recommended. We with a protection class of 3 or higher (breakthrough time greater the lent) is recommended. d by movement and this should be taken into account when considerin e rated as: in eater than 0.35 mm, are recommended. arily a good predictor of glove resistance to a specific chemical, as the glove material. Therefore, glove selection should also be based on co facturer, the glove type and the glove model. Therefore, the manufact waying thickness may be required for specific tasks. For example:	r protective equipment, to cturer to manufacturer. and has therefore to be rived when making a final build be washed and dried through time greater than an 60 minutes according ing gloves for long-term

 Body protection
 See Other protection below

 Other protection

 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:

Meguiar's G20 - Convertible Cleaner

Material	СРІ
NATURAL RUBBER	A
	А

* 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.

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

* - Continuous Flow ** - Continuous-flow or positive pressure demand

 $\begin{array}{l} \mbox{A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC) \\ \end{array}$

- 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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	ce Clear liquid with pleasant odour; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.0
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	12.5-13.5	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>93 (PMCC)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	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)	VOC = 21.65 g/l
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	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	Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.
Skin Contact	Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin initation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis. The material may accentuate any pre-existing dermatitis condition Open cuts, abraded or irritated skin should not be exposed to this material
Eye	Some nonionic surfactants may produce a localised anaesthetic effect on the comea; this may effectively eliminate the warning discomfort produced by other substances and lead to comeal injury. Irritant effects range from minimal to severe dependent on the nature of the surfactant, its concentration and the duration of contact. Pain and corneal damage represent the most severe manifestation of irritation. When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation.
Chronic	Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Gastrointestinal disturbances may also occur. Chronic exposures may result in dermatitis and/or conjunctivitis. Parenteral administration of EDTA and its salts in high doses may produce severe renal lesions with tubular necrosis, internal haemorrhage, transient bone marrow depression and life-threatening hypocalcaemia. Prolonged parenteral exposures produce electrolyte imbalance and possible cardiac arrhythmias. Prolonged or repeated skin contact may result in irritation. EDTA and its metal salts do not permeate the cellular membrane to a significant extent; they remain in the extracellular fluid until excreted. (ILO Encyclopaedia) NOTE: Conflicting animal test data is available with regard to the teratogenic potential of EDTA sodium salts. Some data indicate that teratogenic effects may occur at extremely high maternal doses.

Meguiar's G20 - Convertible	TOXICITY	IRRITATION
Cleaner	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: >2000 mg/kg ^[2]	Eye (human): SEVERE
alcohols C9-11 ethoxylated	Oral (rat) LD50: 1378 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]
		Skin: no adverse effect observed (not irritating) ^[1]
		Skin: SEVERE
	ΤΟΧΙΟΙΤΥ	IRRITATION
sodium metasilicate, anhydrous	dermal (rat) LD50: >5000 mg/kg ^[1]	Skin (human): 250 mg/24h SEVERE
	Oral (rat) LD50: =600 mg/kg ^[2]	Skin (rabbit): 250 mg/24h SEVERE
	TOXICITY	IRRITATION
	dermal (rat) LD50: >2000 mg/kg ^[2]	Eye (rabbit): 100 mg/24h moderate
sodium carbonate	Inhalation (guinea pig) LC50: 0.4 mg/l/2h ^[2]	Eye (rabbit): 100 mg/30s mild
	Oral (rat) LD50: 2800 mg/kg ^[2]	Eye (rabbit): 50 mg SEVERE
		Eye: adverse effect observed (irritating) ^[1]
		Skin (rabbit): 500 mg/24h mild
		Skin: no adverse effect observed (not irritating) ^[1]

	ΤΟΧΙΟΙΤΥ	IRRITATION
alcohols C12-16 ethoxylated	Oral (rat) LD50: 5000 mg/kg ^[2]	Eye: SEVERE **
		Skin: moderate **
3-isodecyloxypropanamine chloride, ethoxylated	TOXICITY Not Available	IRRITATION
Legend:	1. Value obtained from Europe ECHA Registered Substances - data extracted from RTECS - Register of Toxic Effect of chemica	Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified al Substances
Meguiar's G20 - Convertible Cleaner	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as uriticaria or Quincks' so dedma. The pathogenesis of contact eczema involves a cell-mediated (T jmphocytes) immune reactions of the delayed type. Other allergic skin reactions, e.g. contact uncaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not with singly determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising content optotential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising contentined by its sensitisation potential: the distribution of the substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested. For ethylenediaminetertraacetic acid (EDTA) and its salts: EDTA is a storing organic acid (approximately 1000 times storinger than acetic acid). It has a high affinity for alkaline-earth ions (for example, calcium and magnesium) and heavy-metal ions (for example, lead and mercury). This affinity generally results in the formation of highly stable and soluble hexadentate chelate complexes. EDTAs a stare mild skin intrinants but considered severe eye inflants. The greatest risk in the human body will occur when the EDTA and its salts are mild skin intrinants but considered severe eye inflants. The greatest risk in the human body will occur when the EDTA attempts to scavenge the trace metals used and required by the body. The binding of divalent and trivalent cations by EDTA can cause mineral deficiencies, which seem to be responsible for all of the known pharmacological effects. Sensitivity to the toxity, Rats fed 0.3% discidum EDTA for 4.25 weaks were without deletowered produces were seen in animalis that were fed minerela deficient dists. Anormal symptoms were	
ALCOHOLS C9-11 ETHOXYLATED	ALCOHOLS C911 EHOXYLATED ALCOHOLS C911 ALCOHOLS ALCOHOLS ALCOHOLS ALCOHOLS ALCOHOLS ALCOHOLS ALCO	

	Inte of perculaneous absorption. However, since the ratio of the change in values of the detrylene glycol to the detrylene glycol series is larger than that of the detrylene glycol to testifyene glycol moleties. Therefore, although tetraterylene glycol moleties on absorption diminishes with an increased number of ethylene glycol moleties. Therefore, although tetraterylene glycol methyl, ether (TetratRE) is a expected to be less permeable to site in the TGRE that of fifteeness in permeable to site intervene these molecules may only be slight. Metabolism: The main metabolic pathway for metabolism of ethylene glycol monally lethers (EGME, EGEE, and EGGE) is oxidiation via alcohol and aldehyle detrydrogenases (ALD/ADH) that leads to the formation of an alloxy acid. Alkony acids are the only toxicologically significant metabolies of glycol althes that have been detected in vivo. The principal metabolice of TGNE is believed to be 24;2-4,2-methosynthoxylethoxyl acids. Alk ough ethylene glycol, a known kitnery toxicani, has been identified as an impurity or a minor metabolice of glycol ethers in animal studies it does not appear to contribute to the toxicity of glycol ethers. The metabolic breadwatom of the ether hindges also has to cocur Acute toxicity: Category members generally display low acute toxicity by the oral, inhalation and dermal routes de spouse. Signs of toxicity in animals receiving lethal and lethat put the glycol ethers. Acute toxicity: Category members generally display low acute toxicity by the oral. Aritation: The data indicate that the glycol ethers may cause mild to moderate skin initiation. TGEE and TGBE are highly initiating to the eyes. Other Category members show low eye initiation. The stoxicity: Results of these studies suggest that repeated exposure to moderate to high doese of the glycol ethers in this category is required to produce systemic toxicity. In a 21-day divert and these toxicits and maintistered to rabibit at 1000 mgkgl/day. Homes and observed. In addit
SODIUM CARBONATE	conjunctivitis. for sodium carbonate: Sodium carbonate has no or a low skin irritation potential but it is considered irritating to the eyes. Due to the alkaline properties an irritation of the respiratory tract is also possible. No valid animal data are available on repeated dose toxicity studies by oral, dermal, inhalation or by other routes for sodium carbonate. A repeated dose inhalation study, which was not reported in sufficient detail, revealed local effects on the lungs which could be expected based on the alkaline nature of the compound. Under normal handling and use conditions neither the concentration of sodium in the blood nor the pH of the blood will be increased and therefore sodium carbonate is not expected to be systemically available in the body. It can be stated that the substance will neither reach the foetus nor reach male and female reproductive organs, which shows that there is no risk for developmental toxicity and no risk for toxicity to reproduction. This was confirmed by a developmental study with rabbits, rats and mice. An <i>in vitro</i> mutagenicity test with bacteria was negative and based on the structure of sodium carbonate no genotoxic effects are expected. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.
ALCOHOLS C12-16 ETHOXYLATED	The material may cause skin irridiation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. * Henkel Canada, ** Betz Dearborn
3-ISODECYLOXYPROPANAMINE CHLORIDE, ETHOXYLATED	Most undiluted cationic surfactants satisfy the criteria for classification as Harmful (Xn) with R22 and as Irritant (Xi) for skin and eyes with R38 and R41. For quaternary ammonium compounds (QACs): Quaternary ammonium compounds (QACs) are cationic surfactants. They are synthetic organically tetra-substituted ammonium compounds, where the R substituents are alkyl or heterocyclic radicals (where hydrogen atoms remain unsubstituted, the term "secondary- or "tertiary- ammonium compounds" is preferred) . A common characteristic of these synthetic compounds is that one of the R's is a long-chain hydrophobic aliphatic residue The cationic surface active compounds are in general more toxic than the anionic and non-ionic surfactants. The positively-charged cationic portion is the functional part of the molecule and the local irritation effects of QACs appear to result from the quaternary ammonium cation. Due to their relative ability to solubilise phospholipids and cholesterol in lipid membranes, QACs affect cell permeability which may lead to cell death. Further QACs denature proteins as cationic materials precipitate protein and are accompanied by generalised tissue irritation. It has been suggested that the experimentally determined decrease in acute toxicity of QACs with chain lengths above C16 is due to decreased water solubility. In general it appears that QACs with a single long-chain alkyl groups are more toxic and irritating than those with two such substitutions, The straight chain aliphatic QACs have been shown to release histarnine from minced guinea pig lung tissue However, studies with benzalkonium chloride have shown that the effect on histamine release depends on the concentration of the solution. When cell suspensions (11% mast cells) from rats were exposed to low concentrations, a decrease in histamine release was seen. When exposed to high concentrations the opposite result was obtained.

	In addition, QACs may show curare-like properties (specifically benzalkonium and cetylpyridinium derivatives, a muscular paralysis with no involvement of the central nervous system. This is most often associated with lethal doses Parenteral injections in rats, rabbits and dogs have resulted in prompt but transient limb paralysis and sometimes fatal paresis of the respiratory muscles. This effect seems to be transient. From human testing of different QACs the generalised conclusion is obtained that all the compounds investigated to date exhibit similar toxicological properties. Acute toxicity: Studies in rats have indicated poor intestinal absorption of QACs. Acute toxicity of QACs varies with the compound and, especially, the route of administration. For some substances the LD50 value is several hundreds times lower by the i.p. or i.v. than the oral route, whereas toxicities between the congeners only differ in the range of two to five times. At least some QACs are significantly more toxic in S0% dimethyl sulfoxide than in plain water when given orally. Probably all common QAC derivatives produce similar toxic reactions, but as tested in laboratory animals the oral mean lethal dose varies with the compound. Oral toxicity: LD50 values for QACs have been reported within the range of 250-1000 mg/kg for rats, 150-1000 mg/kg for mice, 150-300 mg/kg for guinea pigs and about 500 mg/kg b.w. for rabbits and dogs . The ranges observed reflect differences in the study designs of these rather old experiments as well as differences between the various QACs. The axis as loo found that given into a full stomach, the QACs lead to lower mortality and fewer gastrointestinal symptoms. This support the suggestion of an irritating effect. Dermal toxicity: It has been concluded that the maximum concentration that did not produce irritating effect on intact skin is 0.1%. Irritation became manifest in the 1-10% range. Concentrations belw 0.1% have caused irritation in persons with contact dermatitis or boken skin. Although the absorp
Meguiar's G20 - Convertible Cleaner & 3-ISODECYLOXYPROPANAMINE CHLORIDE, ETHOXYLATED	No significant acute toxicological data identified in literature search.
Meguiar's G20 - Convertible Cleaner & SODIUM METASILICATE, ANHYDROUS & SODIUM CARBONATE & 3-ISODECYLOXYPROPANAMINE CHLORIDE, ETHOXYLATED	Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. 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. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.
ALCOHOLS C9-11 ETHOXYLATED & ALCOHOLS C12-16 ETHOXYLATED	Human beings have regular contact with alcohol ethoxylates through a variety of industrial and consumer products such as seaps, detergents, and other deaning products. Exposure to these chemicals can occur through ingestion, inhalation, or contact with the skin or eyes. Studies of acute toxicity show that volumes well above a reasonable intake level would have to occur to produce any toxic response. Moreover, no fall case of poisoning with alcohol ethoxylates has ever been reported. Multiple studies investigating the acute toxicity of alcohol ethoxylates have shown that the use of these compounds is of tow concern in terms of oral and dermal toxicity. Clinical animal studies indicate these chemicals may produce gastrointestinal irritation such as ulcerations of the stomach, pilo-erection, diarrhea, and lethargy. Similarly, slight to severe irritation of the skin or eye was generated when unditude alcohol ethoxylates were applied to the skin and eyes of rabbits and rats. The chemical shows no indication of being a genotoxin, carcinogen, or mutagen (HERA 2007). No information was available on levels at which these effects might occur, though toxicity is thought to be substantially lower than that of nonylphenel denoxylates. Showed that polyethers for example, ethoxylated suffactants and polyethylee glycols, are highly susceptible towards air oxidation as the ether oxygens will stabilize intermediary radicals involved. Investigations of a chemically well-defined alcohol (pentaethylene glycol mono-n-dodecyl ether) ethoxylate, showed that polyethers from complex mittude. It was found to be a strong sensitizer in LLNA (local) myth nore desasy for detection of sensitization capacity. The formation of other hydroperoxides was indicated by the detection of their corresponding aldehydes in the oxidation mixture. On the basis indicated by the detection of their corresponding aldehydes in the oxidation mixture. EO < 5 files Harmful (XN) with R22 (Harmful if swallowed) - R38/41 EO < 15.20 glyes Harmful (XN) w

	osserved. Ine majority of available toxicity studies revealed NOAELs in excess of 100 mg/kg bw/d but the lowest NOAEL for an individual AE was established to be 50 mg/kg bw/day. This value was subsequently considered as a conservative, representative value in the risk assessment of AE. The effects were restricted to changes in organ weights with no histopathological organ changes with the exception of liver hypertrophy (indicative of an adaptive response to metabolism rather than a toxic effect). It is noteworthy that there was practically no difference in the NOAEL in oral studies of 90-day or 2 years of duration in rats. A comparison of the aggregate consumer exposure and the systemic NOAEL (taking into account an oral absorption value of 75%) results in a Margin of Exposure of 5,800. Taking into account the conservatism in the exposure assessment and the assigned systemic NOAEL, this margin of exposure is considered more than adequate to account for the inherent uncertainty and variability of the hazard database and inter and intraspecies extrapolations.		
	AEs are not contact sensitisers. Neat AE are irritating to ex Local dermal effects due to direct or indirect skin contact in expected to be irritating to the skin at in-use concentration: AE generated as a consequence of spray cleaner aerosols In summary, the human health risk assessment has demon cause concern with regard to consumer use.	yes and skin. The irritation potential of ac n certain use scenarios where the product s. Potential irritation of the respiratory tra s or laundry powder detergent dust.	queous solutions of AEs depends on concentrations. cts are diluted are not of concern as AEs are not ct is not a concern given the very low levels of airborne aundry and cleaning detergents is safe and does not
ALCOHOLS C9-11 ETHOXYLATED & SODIUM METASILICATE, ANHYDROUS	The material may produce severe skin irritation after prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) thickening of the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. Prolonged contact is unlikely, given the severity of response, but repeated exposures may produce severe ulceration.		
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	¥	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	•	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend: 🗙

X – Data either not available or does not fill the criteria for classification v – Data available to make classification

SECTION 12 ECOLOGICAL INFORMATION

oxicity					
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
Meguiar's G20 - Convertible Cleaner	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	8.5mg/L	4
	EC50	48	Crustacea	2.5mg/L	2
alcohols C9-11 ethoxylated	EC50	96	Algae or other aquatic plants	1.4mg/L	2
	EC20	72	Algae or other aquatic plants	0.711mg/L	2
	NOEC	240	Fish	0.16mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	2-320mg/L	2
odium metasilicate, anhydrous	EC50	48	Crustacea	1-700mg/L	2
	EC50	72	Algae or other aquatic plants	207mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	300mg/L	4
sodium carbonate	EC50	48	Crustacea	=176mg/L	1
	EC50	96	Algae or other aquatic plants	242mg/L	4
	NOEC	16	Crustacea	424mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
alcohols C12-16 ethoxylated	Not Available	Not Available	Not Available	Not Available	Not Available
3-isodecyloxypropanamine chloride, ethoxylated	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available	Not Available	Not Available

(Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

For ethylenediaminetetraacetic acid (EDTA) (and its salts)

Environmental fate:

Under natural conditions, EDTA has been found to convert to ethylenediaminetriacetic acid and then cyclise to the diketopiperazine, which accumulates in the environment as a persistent organic pollutant.

Based on its physicochemical properties and collateral experimental results, EDTA is not expected to volatilize from soil or water. When released to the atmosphere, EDTA should sorb to

particulate matter, and appears to have the potential to photolyse. In water, EDTA may react with photochemically generated hydroxyl radicals (half-life of approximately 230 days or 8 months). When released to soil, EDTA is mobile and expected to complex trace metals and alkaline earth metals, thereby causing an increase in the total solubility of the metals. EDTA may eventually predominate as the Fe(III) chelate in acidic soils and as the Ca chelate in alkaline soils. EDTA and its chelates are expected to leach readily through soil. When released to water, EDTA is also expected to form soluble complexes with trace metals and alkaline earth metals. It would not be expected to sorb appreciably to sediments or suspended solids in water, and is known not to be retained or altered chemically in typical water treatment facilities. However depending upon speciation and local conditions, some sorption (approximately 6 to 25%) occurred within a contact time of one month in a sediment removed from a lake in Finland.

When released to soil or water EDTA is slow to degrade, with aerobic biodegradation (mineralisation) being the dominant mechanism. Possible biodegradation products include ethylenediamine triacetic acid, iminodiacetic acid, N.N-ethylenediamine diacetic acid, ethylenediamine monoacetic acid, nitrilotriacetic acid and glycine.

Recalcitrance to degradation is associated with the high thermodynamic stability of metal complexes and is problematic for treatment facilities. In a variety of representative soils, common values for the degree of aerobic metabolism of EDTA at a temperature of 30 C and soil concentrations of 2-4 ppm are 13-45% after 15 weeks and 65-70% after 45 weeks. Biodegradation in subsoil or under anaerobic conditions is essentially negligible.

Abiotic degradation in the environment, except for photolysis, is also negligible. Results in sediments were similar to those for soil.

Although EDTA is slow to degrade under typical environmental conditions, based on experimental results with bluegill sunfish and its intrinsic physicochemical properties (ionic nature and water solubility), EDTA is not expected to bioconcentrate.

Ecotoxicity:

For EDTA and various salts

Fish LC50 (96 h): 20-430 mg/l

Daphnia LC50 (48 h): 14-100 mg/l

Green algae EC50 (96 h): 3-60 mg/l

EDTA compounds range from practically non-toxic to moderately toxic on an acute basis depending on the salt. Algae and invertebrates are among the most sensitive species based on predictive modeling for acute and chronic endpoints for EDTA, depending on the compound. EDTA and its salts also do not appear to be very toxic for terrestrial wild mammals and adverse effects from reasonably expected agricultural uses are not expected.

Chelating agents might reduce the elimination of heavy metals by adsorption on activated sludge. A remobilisation of heavy metals out of river sediment might be expected.

Polyanionic monomers, such as ethylenediaminetetraacetic acid (EDTA), are toxic to green algae. Toxicity to algae is moderate and it appears that the mode of toxic action of these polyanionic monomers is overchelation of nutrient elements needed by algae for growth. Polyanionic monomers are assessed similarly to the polycarboxylic acid polymers.

For surfactants: Environmental fate:

Octanol/water partition coefficients cannot easily be determined for surfactants because one part of the molecule is hydrophilic and the other part is hydrophobic. Consequently they tend to accumulate at the interface and are not extracted into one or other of the liquid phases. As a result surfactants are expected to transfer slowly, for example, from water into the flesh of fish. During this process, readily biodegradable surfactants are expected to be metabolised rapidly during the process of bioaccumulation. This was emphasised by the OECD Expert Group stating that chemicals are not to be considered to show bioaccumulation potential if they are readily biodegradable.

Several anionic and nonionic surfactants have been investigated to evaluate their potential to bioconcentrate in fish. BCF values (BCF - bioconcentration factor) ranging from 1 to 350 were found. These are absolute maximum values, resulting from the radiolabelling technique used. In all these studies, substantial oxidative metabolism was found resulting in the highest radioactivity in the gall bladder. This indicates liver transformation of the parent compound and biliary excretion of the metabolised compounds, so that "real" bioconcentration is overstated. After correction it can be expected that "real" parent BCF values are one order of magnitude less than those indicated above, i.e. "real" BCF is <100. Therefore the usual data used for classification by EU directives to determine whether a substance is "Dangerous to the "Environment" has little bearing on whether the use of the surfactant is environmentally acceptable.

Ecotoxicity:

Surfactant should be considered to be toxic (EC50 and LC50 values of < 10 mg/L) to aquatic species under conditions that allow contact of the chemicals with the organisms. The water solubility of the chemicals does not impact the toxicity except as it relates to the ability to conduct tests appropriately to obtain exposure of the test species. The acute aquatic toxicity generally is considered to be related to the effects of the surfactant properties on the organism and not to direct chemical toxicity **DO NOT** discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium carbonate	LOW	LOW

Bioaccumulative potential

Ingredient Bloac	locumulation
sodium carbonate LOW (/ (LogKOW = -0.4605)

Mobility in soil

Ingredient	Mobility
sodium carbonate	HIGH (KOC = 1)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product / Packaging disposal	 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: Reduction 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. Shell file 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. D 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. In all cases disposal to sever may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycle wherever possible to recoult manufacturer for recycling options. Consult State Land Waste Authority for disposal. Bury or incinerate residue at an approved site.
	Continued

	 Recycle containers if possible, or dispose of in an aut 	thorised landfill.
SECTION 14 TRANSPORT	NFORMATION	
Labels Required		
Marine Pollutant	NO	
HAZCHEM	Not Applicable	
Land transport (ADG): NOT R	EGULATED FOR TRANSPORT OF DANGEROU	IS GOODS
Air transport (ICAO-IATA / DGI	R): NOT REGULATED FOR TRANSPORT OF DA	INGEROUS GOODS
Sea transport (IMDG-Code / G	GVSee): NOT REGULATED FOR TRANSPORT	OF DANGEROUS GOODS
Transport in bulk according Not Applicable	to Annex II of MARPOL and the IBC code	
SECTION 15 REGULATORY	INFORMATION	
Safety, health and environme	ntal regulations / legislation specific for the	substance or mixture
ALCOHOLS C9-11 ETHOXYLATED	IS FOUND ON THE FOLLOWING REGULATORY LIST	S
Australia Dangerous Goods Code (A	.DG Code) - Dangerous Goods List	International Air Transport Association (IATA) Dangerous Goods Regulations
Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes		International Maritime Dangerous Goods Requirements (IMDG Code)
Australia Inventory of Chemical Subs	ances (AICS)	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations
SODIUM METASILICATE, ANHYD	ROUS IS FOUND ON THE FOLLOWING REGULATORY	LISTS
Australia Dangerous Goods Code (A	.DG Code) - Dangerous Goods List	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule
Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes		5
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)		Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSIMP) - Schedule
Australia Inventory of Chemical Subs	ances (AICS)	International Air Transport Association (IATA) Dangerous Goods Regulations
10/Appendix C	areading of Medicines and Folsons (SUSINF) - Schedule	International Maritime Dangerous Goods Requirements (IMDG Code)
		United Nations Recommendations on the Transport of Dangerous Goods Model Regulations
SODIUM CARBONATE IS FOUND	ON THE FOLLOWING REGULATORY LISTS	
Australia Hazardous Chemical Inform	nation System (HCIS) - Hazardous Chemicals	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6
Australia Standard for the Uniform Se	cheduling of Medicines and Poisons (SUSMP) - Schedule	GESAMP/EHS Composite List - GESAMP Hazard Profiles
10 / Appendix C		IMO IBC Code Chapter 17: Summary of minimum requirements
Australia Standard for the Uniform St	cheduling of Medicines and Poisons (SUSMP) - Schedule	IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk
ALCOHOLS C12-16 ETHOXYLATE	D IS FOUND ON THE FOLLOWING REGULATORY LIS	rs
	DG Code) - Dangerous Goods List	International Air Transport Association (IATA) Dangerous Goods Regulations
Australia Dangerous Goods Code (A	DG Code) - List of Emergency Action Codes	International Maritime Dangerous Goods Requirements (IMDG Code)
Australia Dangerous Goods Code (A Australia Dangerous Goods Code (A	is a code, "Liet of Entergency / Katerr action	
Australia Dangerous Goods Code (A Australia Dangerous Goods Code (A Australia Hazardous Chemical Inform	nation System (HCIS) - Hazardous Chemicals	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations
Australia Dangerous Goods Code (A Australia Dangerous Goods Code (A Australia Hazardous Chemical Inform Australia Inventory of Chemical Subs	aation System (HCIS) - Hazardous Chemicals tances (AICS)	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations
Australia Dangerous Goods Code (A Australia Dangerous Goods Code (A Australia Hazardous Chemical Inform Australia Inventory of Chemical Subs 3-ISODECYLOXYPROPANAMINE	aation System (HCIS) - Hazardous Chemicals tances (AICS) CHLORIDE, ETHOXYLATED IS FOUND ON THE FOLLO	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations WING REGULATORY LISTS
Australia Dangerous Goods Code (A Australia Dangerous Goods Code (A Australia Hazardous Chemical Inform Australia Inventory of Chemical Subs 3-ISODECYLOXYPROPANAMINE Australia Dangerous Goods Code (A	hation System (HCIS) - Hazardous Chemicals tances (AICS) CHLORIDE, ETHOXYLATED IS FOUND ON THE FOLLC DG Code) - Dangerous Goods List	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations WING REGULATORY LISTS International Air Transport Association (IATA) Dangerous Goods Regulations
Australia Dangerous Goods Code (A Australia Dangerous Goods Code (A Australia Hazardous Chemical Inform Australia Inventory of Chemical Subs 3-ISODECYLOXYPROPANAMINE Australia Dangerous Goods Code (A Australia Dangerous Goods Code (A	nation System (HCIS) - Hazardous Chemicals tances (AICS) CHLORIDE, ETHOXYLATED IS FOUND ON THE FOLLO .DG Code) - Dangerous Goods List DG Code) - List of Emergency Action Codes	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations WING REGULATORY LISTS International Air Transport Association (IATA) Dangerous Goods Regulations International Maritime Dangerous Goods Requirements (IMDG Code)

National Inventory Status

National Inventory	Status
Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	No (alcohols C9-11 ethoxylated; alcohols C12-16 ethoxylated; 3-isodecyloxypropanamine chloride, ethoxylated; sodium metasilicate, anhydrous; sodium carbonate)
China - IECSC	No (3-isodecyloxypropanamine chloride, ethoxylated)
Europe - EINEC / ELINCS / NLP	No (alcohols C9-11 ethoxylated; 3-isodecyloxypropanamine chloride, ethoxylated)
Japan - ENCS	No (alcohols C9-11 ethoxylated; alcohols C12-16 ethoxylated; 3-isodecyloxypropanamine chloride, ethoxylated)
Korea - KECI	No (3-isodecyloxypropanamine chloride, ethoxylated)
New Zealand - NZIoC	Yes
Philippines - PICCS	No (3-isodecyloxypropanamine chloride, ethoxylated)
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (3-isodecyloxypropanamine chloride, ethoxylated)
Vietnam - NCI	No (3-isodecyloxypropanamine chloride, ethoxylated)
Russia - ARIPS	No (alcohols C9-11 ethoxylated; alcohols C12-16 ethoxylated; 3-isodecyloxypropanamine chloride, 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 and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Revision Date	05/09/2019
Initial Date	01/11/2009

SDS Version Summary

Version	Issue Date	Sections Updated
3.1.1.1	13/10/2011	Classification, First Aid (swallowed), Supplier Information
5.1.1.1	01/09/2015	One-off system update. NOTE: This may or may not change the GHS classification, Acute Health (skin), Appearance, Ingredients, Physical Properties

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.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value **BCF: BioConcentration Factors** BEI: Biological Exposure Index This document is copyright.

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