Motor Active

Chernwatch: 4827-24 Version No: 7.1.1.1 Safety Data Sheet according to WHS and ADG requirements

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

Product Identifier

Product name	Meguiars D161, Detailer Silicone-Free Dressing (DX-77B): D16101, D16105
Synonyms	Product Code: D161; Ref No: DX-77A
Other means of identification	Not Available
Relevant identified uses of the substance or mixture and uses advised against	
Relevant identified uses	Automotive - high-gloss tire finish.

Details of the supplier of the safety data sheet

South Irvine CA 92714 United States
) +1 800 347 5700
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iiars.com/
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Emergency telephone number

Association / Organisation	MotorActive	Not Available
Emergency telephone numbers	+61 2 9737 9422 (For General Information Monday to Friday 8:30am to 5:pm)	Not Available
Other emergency telephone numbers	13 11 26 (In Case of Emergency contact: Poison Information Hotline)	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.

CHEMWATCH HAZARD RATINGS

	M	in M	ax
Flammability	1		
Toxicity	1		0 = Minimum
Body Contact	2		1 = Low
Reactivity	0		3 = High
Chronic	0		4 = Extreme

Poisons Schedule	Not Applicable
Classification ^[1]	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation)
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

SIGNAL WORD	WARNING
Hazard statement(s)	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Supplementary statement(s)

Hazard pictogram(s)

Not Applicable

Chemwatch Hazard Alert Code: 2

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CLP classification (additional)

Not Applicable

Precautionary statement(s) Prevention	
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement(s) R	esponse

Take off contaminated clothing and wash before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER or doctor/physician if you feel unwell.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If skin irritation occurs: Get medical advice/attention.

Precautionary statement(s) Storage

P405 Store	ore locked up.
P403+P233 Store	ore in a well-ventilated place. Keep container tightly closed.

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
56-81-5	10-30	glycerol
25322-69-4	7-13	polypropylene glycol
577-11-7	1-5	sodium dioctyl sulfosuccinate
57-55-6	1-5	propylene glycol
Not Available	<5	conditioners, proprietary
2807-30-9	0.5-1.5	2-propoxyethanol
7732-18-5	50-70	water

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh 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. Seek medical attention without delay; if pain persists or recurs seek medical attention. 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 or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay.
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:

I foam.

- dry chemical powder.
- carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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) acrolein other pyrolysis products typical of burning organic material. May emit poisonous 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 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. 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.
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	 Avoid reaction with oxidising agents Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	glycerol	Glycerin mist	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	propylene glycol	Propane-1,2-diol: particulates only	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	propylene glycol	Propane-1,2-diol total: (vapour & particulates)	150 ppm / 474 mg/m3	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3	
glycerol	Glycerine (mist); (Glycerol; Glycerin)		45 mg/m3	860 mg/m3	2,500 mg/m3
polypropylene glycol	Polypropylene glycols		30 mg/m3	330 mg/m3	2,000 mg/m3
sodium dioctyl sulfosuccinate	Dioctyl sodium sulfosuccinate; (Di-(2-ethylhexyl) sodium sulfosuccinate)		5.7 mg/m3	63 mg/m3	380 mg/m3
propylene glycol	Polypropylene glycols		30 mg/m3	330 mg/m3	2,000 mg/m3
propylene glycol	Propylene glycol; (1,2-Propanediol)		30 mg/m3	1,300 mg/m3	7,900 mg/m3
2-propoxyethanol	Ethylene glycol monopropyl ether; (Propyl cellosolve; Ektasolve EP)	2.2 ppm	24 ppm	140 ppm	
Ingredient	Original IDLH	Revised IDLI	н		
glycerol	Not Available	Not Available			
polypropylene glycol	Not Available Not Available				
sodium dioctyl sulfosuccinate	Not Available	Not Available			
propylene glycol	Not Available	Not Available			
2-propoxyethanol	Not Available	Not Available			
water	Not Available	Available Not Available			

MATERIAL DATA

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 engineer 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 th "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a version the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.	ering controls can be at strategically "adds" and entilation system must
	General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstance exists, wear approved respirator. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to protection. Provide adequate ventilation in warehouses and enclosed storage areas. Air contaminants generated in the workplace "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the cont	ces. If risk of overexposure o ensure adequate e possess varying taminant.
		All Speed.
	solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50-100 f/min)

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	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating of 10-20 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 rapid air motion) 1-2.5 m/s (2				
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion) 2.5-1 (500				
	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	,		
	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple e square of distance from the extraction point (in simple cases). Therefore the air speed at the extra reference to distance from the contaminating source. The air velocity at the extraction fan, for exarr extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechar the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of	extraction pipe. Velocity generally ction point should be adjusted, ar uple, should be a minimum of 1-2 iical considerations, producing pe 10 or more when extraction syste	decreases with the ccordingly, after m/s (200-400 f/min) for eformance deficits within ems 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 the thermore VINCSH CNICSE 1336 or retrieval extinction. 				
Skin protection	See Hand protection below				
Hands/feet protection	 See Hand protection below Wear sheley footwear or safety gumboots, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather terms, such as shoes, belts and watch-bands should be removed and destroyed. The safection of suitable gloves does not only depend on the material, but also on further marks of quality which vay 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 died throughly, and duration of contract, chemical resistance of glove material, glove thickness and dives tistance of glove material, glove thickness and devetrity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, ASNZS 2161.1 or national equivalent). When noty brief contact is expected, a glove with a protection class of 5 or higher (breakthrough time greater than 60 minutes according to EN 374, ASNZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Contaminated gloves should be replaced. Some glove polymer types are less affected by movement and this should be taken				
Body protection	See Other protection below				

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 computergenerated selection:

Meguiars D161, Detailer Silicone-Free Dressing (DX-77B); D16101, D16105

Material	CPI
BUTYL	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NITRILE	С
PE/EVAL/PE	С
PVA	С
VITON	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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Respiratory protection

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

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - Full-face

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	Clear bright pink liquid with sweet clean odour; mixes with water.			
Physical state	Liquid	Relative density (Water = 1)	1.00	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available	
pH (as supplied)	6.8-7.3	Decomposition temperature	Not Available	
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Available	
Initial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Applicable	
Flash point (°C)	>93.33 (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)	1.54 (VOC)	
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	105.75	

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 Hazardous decomposition

See section 7

products See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	Evidence shows, or practical experience predicts, that the material produces following inhalation. In contrast to most organs, the lung is able to respond to repairing the damage. The repair process, which initially evolved to protect m further lung damage resulting in the impairment of gas exchange, the primar inflammatory response involving the recruitment and activation of many cell typ. Not normally a hazard due to non-volatile nature of product	irritation of the respiratory system, in a substantial number of individuals, o a chemical insult by first removing or neutralising the irritant and then ammalian lungs from foreign matter and antigens, may however, produce ry function of the lungs. Respiratory tract irritation often results in an pes, mainly derived from the vascular system.	
Ingestion	Accidental ingestion of the material may be damaging to the health of the indi	ividual.	
Skin Contact	 The material produces mild skin irritation; evidence exists, or practical experience predicts, that the material either produces mild inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant, but mild, 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 irritation 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. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds 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	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals. Repeated or prolonged eye contact may cause inflammation (similar to windburn) characterised by a temporary redness of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.		
Chronic	Long-term exposure to respiratory iritants may result in disease of the airways involving difficult breathing and related systemic problems. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. There exists limited evidence that shows that skin contact with the material is capable either of inducing a sensitisation reaction in a significant number of individuals, and/or of producing positive response in experimental animals. There is some evidence that human exposure to the material may result in developmental toxicity. This evidence is based on animal studies where effects have been observed in the absence of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not secondary non-specific consequences of the other toxic effects. Propylene glycol is though, by some, to be a sensitising principal following the regular use of topical creams by eczema patients. A study of 866 persons using a formulation containing propylene glycol in a patch test indicated that propylene glycol caused primary irritation in 16% of exposed individuals probably caused by dehydration. Undiluted propylene glycol was tested on 1556 persons in a 24 hour patch test. 12.5% showed reactions which were largely toxic (70%) or allergic in nature (30%). Reaction responses reached their maximum on the second day or later. Reactions were seasonal in nature ranging from 17.8% in winter to 9.2% in other seasons. In a patch-test using 25 standard allergens conducted on 500 individuals, propylene glycol taked diverted a reaction, with 40% of the reactions being allergic in nature and 60% being irritant. In dilute solutions 5 of 248 subjects exhibited a reaction. Undiluted propylene glycol tested on the skin of man produced no irritation under open conditions but when applied under occlusive conditions, for 2 weeks, it produced severe entytema, eedema and vesicles, probably due to sweat retention and weak prim		
Meguiars D161, Detailer	TOXICITY	IRRITATION	
Silicone-Free Dressing (DX-77B): D16101, D16105	Not Available	Not Available	
glycerol	Oral (rat) LD50: >10000 mg/kg ^[2]	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
polypropylene glycol	Dermal (rabbit) LD50: 500 mg/kg ^[2]	Skin (rabbit): 500 mg mild	
po, propiosio 3, pool	Oral (rat) LD50: >2000 mg/kg ^[1]		
	TOXICITY	IRRITATION	
sodium dioctyl sulfosuccinate	Dermal (rabbit) LD50: >10000 mg/kg ^[2]	Eye (rabbit): 0.250 mg - mild	
	Oral (rat) LD50: >1320 mg/kg ^[1]	Eye (rabbit): 1% - SEVERE	
		Skin (rabbit): 10 mg/24h-moderate	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Dermal (rabbit) LD50: 11890 mg/kg ^[2]	Eye (rabbit): 100 mg - mild	
propylene alvcol	Inhalation (rat) LC50: >44.9 ma/l/4H ^[2]	Eye (rabbit): 500 mg/24h - mild	
propylenie grycol	Oral (rat) LD50: 20000 mg/kg ^[2]	Skin(human):104 mg/3d Intermit Mod	
		Skin(human):500 mg/7days mild	
		1	

	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: 875.52 mg/kg ^[2]	Eye (rabbit): 0.75 mg/24h SEVERE
2-propoxyethanol	Inhalation (rat) LC50: 1997.718 mg/l/4hourE ^[2]	Eye (rabbit): 100 mg - SEVERE
	Oral (rat) LD50: 3089 mg/kg ^[2]	Skin (rabbit): 500 mg/24h -mild
water	TOXICITY	IRRITATION
	Oral (rat) LD50: >90000 mg/kg ^[2]	Not Available
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity	/ 2.* Value obtained from manufacturer's SDS. Unless otherwise specified

data extracted from RTECS - Register of Toxic Effect of chemical Substances

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. For glycerol: Acute toxicity: Glycerol is of a low order of acute oral and dermal toxicity with LD50 values in excess of 4000 mg/kg bw. At very high dose levels, the signs of toxicity include tremor and hyperaemia of the gastro-intestinal -tract. Skin and eye irritation studies indicate that glycerol has low potential to irritate the skin and the eye. The available human and animal data, together with the very widespread potential for exposure and the absence of case reports of GLYCEROL sensitisation, indicate that glycerol is not a skin sensitiser. Repeat dose toxicity: Repeated oral exposure to glycerol does not induce adverse effects other than local irritation of the gastro-intestinal tract. The overall NOEL after prolonged treatment with glycerol is 10,000 mg/kg bw/day (20% in diet). At this dose level no systemic or local effects were observed. For inhalation exposure to aerosols, the NOAEC for local irritant effects to the upper respiratory tract is 165 mg/m3 and 662 mg/m3 for systemic effects. Genotoxicity: Glycerol is free from structural alerts, which raise concern for mutagenicity. Glycerol does not induce gene mutations in bacterial strains, chromosomal effects in mammalian cells or primary DNA damage in vitro. Results of a limited gene mutation test in mammalian cells were of uncertain biological relevance. In vivo, glycerol produced no statistically significant effect in a chromosome aberrations and dominant lethal study. However, the limited details provided and the absence of a positive control, prevent any reliable conclusions to be drawn from the in vivo data. Overall, glycerol is not considered to possess genotoxic potential. Carcinogenicity: The experimental data from a limited 2 year dietary study in the rat does not provide any basis for concerns in relation to carcinogenicity. Data from non-guideline studies designed to investigate tumour promotion activity in male mice suggest that oral administration of glycerol up to 20 weeks had a weak promotion effect on the incidence of tumour formation. Reproductive and developmental toxicity: No effects on fertility and reproductive performance were observed in a two generation study with glycerol administered by gavage (NOAEL 2000 mg/kg bw/day). No maternal toxicity or teratogenic effects were seen in the rat, mouse or rabbit at the highest dose levels tested in a guideline comparable teratogenicity study (NOEL 1180 mg/kg bw/day). Polyethers, for example, ethoxylated surfactants and polyethylene 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 form complex mixtures of oxidation products when exposed to air. Sensitization studies in guinea pigs revealed that the pure nonoxidized surfactant itself is nonsensitizing but that many of the investigated oxidation products are sensitizers. Two hydroperoxides were identified in the oxidation mixture, but only one (16-hydroperoxy-3,6,9,12,15-pentaoxaheptacosan-1-ol) was stable enough to be isolated. It was found to be a strong sensitizer in LLNA (local lymph node assay 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 of the lower irritancy, nonionic surfactants are often preferred to ionic surfactants in topical products. However, their susceptibility towards autoxidation also increases the irritation. Because of their irritating effect, it is difficult to diagnose ACD to these compounds by patch testing. Allergic Contact Dermatitis—Formation, Structural Requirements, and Reactivity of Skin Sensitizers. Ann-Therese Karlberg et al; Chem. Res. Toxicol.2008,21,53-69 Polyethylene glycols (PEGs) have a wide variety of PEG-derived mixtures due to their readily linkable terminal primary hydroxyl groups in combination with many possible compounds and complexes such as ethers, fatty acids, castor oils, amines, propylene glycols, among other derivatives. PEGs and their derivatives are broadly utilized in cosmetic products as surfactants, emulsifiers, cleansing agents, humectants, and skin conditioners POLYPROPYLENE GLYCOL PEGs and PEG derivatives were generally regulated as safe for use in cosmetics, with the conditions that impurities and by-products, such as ethylene oxides and 1,4-dioxane, which are known carcinogenic materials, should be removed before they are mixed in cosmetic formulations. Most PEGs are commonly available commercially as mixtures of different oligomer sizes in broadly- or narrowly-defined molecular weight (MW) ranges. For instance, PEG-10,000 typically designates a mixture of PEG molecules (n = 195 to 265) having an average MW of 10,000. PEG is also known as polyethylene oxide (PEO) or polyoxyethylene (POE), with the three names being chemical synonyms. However, PEGs mainly refer to oligomers and polymers with molecular masses below 20,000 g/mol, while PEOs are polymers with molecular masses above 20,000 g/mol, and POEs are polymers of any molecular mass. Relatively small molecular weight PEGs are produced by the chemical reaction between ethylene oxide and water or ethylene glycol (or other ethylene glycol oligomers), as catalyzed by acidic or basic catalysts. To produce PEO or high-molecular weight PEGs, synthesis is performed by suspension polymerization. It is necessary to hold the growing polymer chain in solution during the course of the poly-condensation process. The reaction is catalyzed by magnesium-, aluminum-, or calcium-organoelement compounds. To prevent coagulation of polymer chains in the solution, chelating additives such as dimethylglyoxime are used Safety Evaluation of Polyethyene Glycol (PEG) Compounds for Cosmetic Use: Toxicol Res 2015; 31:105-136 The Korean Society of Toxicology http://doi.org/10.5487/TR.2015.31.2.105 The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis ** Rohm and Haas Paraplex WP-1 MSDS SODIUM DIOCTYL Structural changes in blood vessels recorded. SULFOSUCCINATE The acute oral toxicity of propylene glycol is very low, and large guantities are required to cause perceptible health damage in humans. Serious toxicity generally occurs only at plasma concentrations over 1 g/L, which requires extremely high intake over a relatively short period of time. It would be nearly impossible to reach toxic levels by consuming foods or supplements, which contain at most 1 g/kg of PG. Cases of propylene glycol poisoning are usually related to either inappropriate intravenous administration or accidental ingestion of large quantities by children. The potential for long-term oral toxicity is PROPYLENE GLYCOL also low. Because of its low chronic oral toxicity, propylene glycol was classified by the U. S. Food and Drug Administration as "generally recognized as safe" (GRAS) for use as a direct food additive. Prolonged contact with propylene glycol is essentially non-irritating to the skin. Undiluted propylene glycol is minimally irritating to the eye, and can

	produce slight transient conjunctivitis (the eye recovers aft respiratory tract irritation. Inhalation of the propylene glycc human experience indicates that inhalation of propylene glycol not be used in applications where inhalation exposes theatrical productions or antifreeze solutions for emergen Propylene glycol is metabolised in the human body into py acid (handled by ethanol-metabolism), lactic acid (a norm substance). Propylene glycol shows no evidence of being a carcinoge Research has suggested that individuals who cannot toler develop allergic contact dermatitis. Other investigators be in patients with eczema. One study strongly suggests a connection between airbor reactions, such as rhinitis or hives in children Another study suggested that the concentrations of PGEs is linked to increased risk of developing numerous respira increased risk ranging from 50% to 180%. This concentra Patients with vulvodynia and interstitial cystitis may be esp some over the counter creams can cause intense burning, creams made with propylene glycol often create extreme, users who inhale propylene glycol otapor may experience of Glycerin in the "e-liquid" for those who are allergic (or har Adverse responses to intravenous administration of drugs dosages thereof. Responses may include "hypotension, b hyperosmolality, lactic acidosis, and haemolysis". A high p unaltered depending on dosage, with the remainder apper may be due to propylene glycol's mild anesthetic / CNS-d suspended nitroglycerin to an elderty man may have induce Propylene glycol is an approved food additive for dog fooc mL/kg. The LD50 is higher for most laboratory animals (2 Similarly, propylene glycol is an approved food additive for Heinz hovk anemia	ter the exposure is removed). Exposure to ol vapours appears to present no signific plycol mists could be irritating to some ind ure or human eye contact with the spray re- cy eye wash stations. yruvic acid (a normal part of the glucose- al acid generally abundant during digesti- en or of being genotoxic. rate propylene glycol probably experience elieve that the incidence of allergic contact me concentrations of propylene glycol in l s (counted as the sum of propylene glycol in l s (counted as the sum of propylene glycol. Wor . Post menopausal women who require the uncomfortable burning along the vulva a dryness of the throat or shortness of bare ve bad reactions) to propylene glycol. which use PG as an excipient have been pradycardia QRS and T abnormalities of percentage (12% to 42%) of directly-inje earing in its glucuronide-form. The speece expressant -properties as an alcohol. In o ed coma and acidosis. d under the category of animal feed and i 0 mL/kg) r human food as well. The exception is th	o mists may cause eye irritation, as well as upper ant hazard in ordinary applications. However, limited ividuals It is therefore recommended that propylene nists of these materials is likely, such as fogs for metabolism process, readily converted to energy), acetic on), and propionaldehyde (a potentially hazardous e a special form of irritation, but that they only rarely at dermatitis to propylene glycol may be greater than 2% houses and development of asthma and allergic I and glycol ethers) in indoor air, particularly bedroom air, houge asthma, hay fever, eczema, and allergies, with ad paints and water-based system cleansers. The suffering with yeast infections may also notice that he use of an eostrogen cream may notice that brand name ind perianal area. Additionally, some electronic cigarette th . As an alternative, some suppliers will put Vegetable in seen in a number of people, particularly with large in the ECG, arrhythmia, cardiac arrest, serum cted propylene glycol is eliminated/secreted in urine I of renal filtration decreases as dosage increases, which he case, intravenous administration of propylene glycol- is generally recognized as safe for dogs with an LD50 of 9 at it is prohibited for use in food for cats due to links to
2-PROPOXYETHANOL	The material may cause skin irritation after prolonged or often characterised by skin redness (erythema) and swell and intracellular oedema of the epidermis. For ethylene glycol monoalkyl ethers and their acetates (E Typical members of this category are ethylene glycol propard their acetates. EGMAEs are substrates for alcohol dehydrogenase isozy transient metabolites). Further, rapid conversion of the ald urinary metabolites of mono substituted glycol ethers. Acute Toxicity : Oral LD50 values in rats for all category decreasing molecular weight. Four to six hour acute inhal concentrations practically achievable. Values range from 2132 ppm (9061 mg/m3) for EGPE. No lethality was obse 435 mg/kg bw (EGBE) to 1500 mg/kg bw (EGBEA). Over members cause reversible irritation to skin and eyes, with EGBE are not sensitisers in experimental animals or hum exception of EGHE) and non-specific CNS depression typ butoxyacetic acid (BAA), are responsible for the red bloo 9-22% EGBE are similar to those of rats, with the exceptic in some of the human cases, it is not clear if this was due cells of humans are many-fold more resistant to toxicity fremessens, which included erythrocyte swelling (increase pigs, dogs, cats, and guinea pigs was less sensitive to ham Mutagenicity : In the absence and presence of metabolic typ <i>inmirum</i> strains TA97, TA98, TA100, TA1535 and TA1 <i>vitro</i> cytogenicity and sister chromatid exchange assays in vivo micronucleus tests with EGBE in rats and mice we Carcinogenicity : In a 2-year inhalation chronic toxicity an haemangiosarcomas was seen in male mice and forestor was no significant hazard for human carcinogenicity. The result are not selectively toxic to the reproductive system or deve studies in which reproductive organs were examined indic (including the testes). Results of the developmental toxicity studies conducted vi 1062, or 2125 mg/m3 and rats - 100, 200, 300, 400 ppm o 966 mg/m3), and EGHE (rat and rabbit - 20.8, 41.4, 79.2 [The NOAELs for developmental toxicity are greater than Emgi	repeated exposure and may produce a c ling epidermis. Histologically there may b EGMAEs): aylene ether (EGPE), ethylene glycol buty yme ADH-3, which catalyzes the converse ehydes by aldehyde dehydrogenase proc members range from 739 (EGHE) to 30 lation toxicity studies were conducted for LCO > 85 ppm (508 mg/m3) for EGHE, L arved for any of these materials under the all these category members can be cons in EGBEA less irritating and EGHE more pans. Signs of acute toxicity in rats, mice pical of organic solvents in general. Alko: d cell hemolysis. Although decreased bk to haemolysis or haemodilution as a res om EGPE and EGBE <i>in vitro</i> than those <i>i</i> ated dose toxicity of EGBE is less than th insters, rabbits and baboons were sensitiv d haematocrit and mean corpuscular her aemolysis by BAA <i>in vitro</i> . c activation, EGBE tested negative for mu 537 and EGHE tested negative in strains with EGBE and EGHE in Chinese Hamst are negative, indicating that these glycol of and carcinogenicity study with EGBE in ra nach turnours in female mice. It was decid ats of reproductive and developmental toxicity is se cate that the members of this category ar ia inhalation exposures during gestation p ir 425, 850, 1275, or 1700 mg/m3), EGBE ppm or 124, 248, or 474 mg/m3) indicate 500 ppm or 2125 mg/m3 (rabbit-EGPE), 3BE) and greater than 79.2 ppm or 474 i stency of the animal experiments emphase	ontact dermatitis (nonallergic). This form of dermatitis is be intercellular oedema of the spongy layer (spongiosis) A ether (EGBE) and ethylene glycol hexyl ether (EGHE) ion of their terminal alcohols to aldehydes (which are fuces alkoxyacetic acids, which are the predominant B9 mg/kg bw (EGPE), with values increasing with these chemicals in rats at the highest vapour C50 > 400ppm (2620 mg/m3) for EGBEA to LC50 > see conditions. Dermal LD50 values in rabbits range from idered to be of low to moderate acute toxicity. All category irritating than the other category members. EGPE and and rabbits are consistent with haemolysis (with the eyacetic acid metabolites, propoxyacetic acid (PAA) and ans deliberately ingesting cleaning fluids containing bod haemoglobin and/or haemoglobinuria were observed ult of administration of large volumes of fluid. Red blood of rats. Tat of EGPE is consistent with red blood cells being more re to the effects of BAA <i>in vitro</i> and displayed similar noglobin), followed by hemolysis. Blood from humans, tagenicity in Ames tests conducted in S. 5 TA98, TA100, TA1535, TA1537 and TA1538. <i>In</i> er Ovary Cells with and without metabolic activation and athers are not genotoxic. Its and mice a significant increase in the incidence of liver led that based on the mode of action data available, there city studies indicate that the glycol ethers in this category condary to maternal toxicity. The repeated dose toxicity e not associated with toxicity to reproductive organs beriods on EGPE (rabbits -125, 520, 500 ppm or 531, (rat and rabbit - 25, 50, 100, 200 ppm or 121, 241, 483, or that the members of the category are not teratogenic. 100 ppm or 425 mg/m3 (rat-EGPE), 50 ppm or 241 mg/m3 (rat and rabbit-EGHE). sizes that human exposure should be dramatically
WATER	No significant acute toxicological data identified in literatu	ure search.	
POLYPROPYLENE GLYCOL & SODIUM DIOCTYL SULFOSUCCINATE & PROPYLENE GLYCOL	The material may cause skin irritation after prolonged or i often characterised by skin redness (erythema) and swell (spongiosis) and intracellular oedema of the epidermis.	repeated exposure and may produce a c ling the epidermis. Histologically there ma	ontact dermatitis (nonallergic). This form of dermatitis is ay be intercellular oedema of the spongy layer
SODIUM DIOCTYL SULFOSUCCINATE & 2-PROPOXYETHANOL	The material may produce severe irritation to the eye cause conjunctivitis.	sing pronounced inflammation. Repeated	l or prolonged exposure to irritants may produce
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 eithe ✓ – Data avail	er not available or does not fill the criteria for classification able to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Meguiars D161, Detailer	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
Silicone-Free Dressing (DX-77B): D16101, D16105	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
glycerol	LC50	96	Fish	>0.011-mg/L	2
	EC50	96	Algae or other aquatic plants	77712.039mg/L	3
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	>1-mg/L	2
polypropylene glycol	EC50	48	Crustacea	>100mg/L	2
	EC50	72	Algae or other aquatic plants	>1-mg/L	2
	NOEC	72	Algae or other aquatic plants	>=1-mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	=12.5mg/L	1
	EC50	48	Crustacea	6.6mg/L	2
sodium dioctyl sulfosuccinate	EC50	72	Algae or other aquatic plants	39.3mg/L	2
	BCF	72	Fish	0.0055mg/L	4
	NOEC	96	Fish	=12.5mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	>10-mg/L	2
propylene glycol	EC50	48	Crustacea	43-500mg/L	2
	EC50	96	Algae or other aquatic plants	19-mg/L	2
	NOEC	168	Fish	11-530mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	>5-mg/L	2
2-propoxyethanol	EC50	72	Algae or other aquatic plants	>100mg/L	2
	NOEC	72	Algae or other aquatic plants	>=100mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
water	LC50	96	Fish	897.520mg/L	3
	EC50	96	Algae or other aquatic plants	8768.874mg/L	3
	Frature et a el fere en el				10 10 10 10

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
glycerol	LOW	LOW
propylene glycol	LOW	LOW
2-propoxyethanol	LOW	LOW
water	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
glycerol	LOW (LogKOW = -1.76)
sodium dioctyl sulfosuccinate	LOW (BCF = 3.78)

propylene glycol	LOW (BCF = 1)
2-propoxyethanol	LOW (LogKOW = 0.0755)
water	LOW (LogKOW = -1.38)

Mobility in soil

Ingredient	Mobility
glycerol	HIGH (KOC = 1)
propylene glycol	HIGH (KOC = 1)
2-propoxyethanol	HIGH (KOC = 1)
water	LOW (KOC = 14.3)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal	 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. 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 or consult manufacturer for recycling options. Consult State Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO Not Applicable
HAZCHEM	Not Applicable

Land transport (ADG): 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

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

SECTION 15 REGULATORY INFORMATION

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

GLYCEROL(56-81-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS		
Australia Exposure Standards	IMO IBC Code Chapter 17: Summary of minimum requirements	
Australia Inventory of Chemical Substances (AICS)	IMO IBC Code Chapter 18: List of products to which the Code does not apply	
GESAMP/EHS Composite List - GESAMP Hazard Profiles	IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances	
POLYPROPYLENE GLYCOL(25322-69-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS		
Australia Inventory of Chemical Substances (AICS)	IMO IBC Code Chapter 17: Summary of minimum requirements	
GESAMP/EHS Composite List - GESAMP Hazard Profiles	IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk	
SODIUM DIOCTYL SULFOSUCCINATE(577-11-7) 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) - Appendix	
Australia Inventory of Chemical Substances (AICS)	B (Part 3)	
PROPYLENE GLYCOL(57-55-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS		
Australia Exposure Standards	GESAMP/EHS Composite List - GESAMP Hazard Profiles	
Australia Inventory of Chemical Substances (AICS)	IMO IBC Code Chapter 17: Summary of minimum requirements	
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Append	IMO IBC Code Chapter 18: List of products to which the Code does not apply	
B (Part 3)	IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk	
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix	IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances	
E (Part 2)	IMO Provisional Categorization of Liquid Substances - List 3: (Trade-named) mixtures	
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix F (Part 3)	containing at least 99% by weight of components already assessed by IMO, presenting safety hazards	
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule		

2-PROPOXYETHANOL(2807-30-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Version No: 7.1.1.1

Meguiars D161, Detailer Silicone-Free Dressing (DX-77B): D16101, D16105

Australia Dangerous Goods Code (ADG 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 GESAMP/EHS Composite List - GESAMP Hazard Profiles Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals IMO IBC Code Chapter 17: Summary of minimum requirements Australia Inventory of Chemical Substances (AICS) Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix United Nations Recommendations on the Transport of Dangerous Goods Model Regulations (Chinese) E (Part 2) United Nations Recommendations on the Transport of Dangerous Goods Model Regulations Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix (English) F (Part 3) United Nations Recommendations on the Transport of Dangerous Goods Model Regulations Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Part 2, (Spanish) Section Seven - Appendix I WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

IMO IBC Code Chapter 18: List of products to which the Code does not apply

National Inventory Status Australia - AICS No (conditioners, proprietary) Non-disclosed ingredients Canada - DSL No (conditioners, proprietary) Non-disclosed ingredients No (sodium dioctyl sulfosuccinate; polypropylene glycol; propylene glycol; glycerol; water; 2-propoxyethanol; conditioners, proprietary) Non-disclosed Canada - NDSL ingredients China - IECSC No (conditioners, proprietary) Non-disclosed ingredients Europe - EINEC / ELINCS / NLP No (conditioners, proprietary) Non-disclosed ingredients Japan - ENCS No (conditioners, proprietary) Non-disclosed ingredients Korea - KECI No (conditioners, proprietary) Non-disclosed ingredients New Zealand - NZIoC No (conditioners, proprietary) Non-disclosed ingredients Philippines - PICCS No (conditioners, proprietary) Non-disclosed ingredients USA - TSCA No (conditioners, proprietary) Non-disclosed ingredients Yes = All ingredients are on the inventory Legend: No = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Australia Inventory of Chemical Substances (AICS)

National Inventory Status

Revision Date	04/06/2018
Initial Date	21/03/2005

SDS Version Summary

Version	Issue Date	Sections Updated
5.1.1.1	26/07/2013	Acute Health (skin), Classification, Fire Fighter (extinguishing media)
6.1.1.1	15/05/2014	Acute Health (inhaled), Classification

Other information

Ingredients with multiple cas numbers

Name	CAS No
glycerol	56-81-5, 29796-42-7, 30049-52-6, 37228-54-9, 75398-78-6, 78630-16-7, 8013-25-0, 8043-29-6, 1400594-62-8
polypropylene glycol	25322-69-4, 29434-03-5
sodium dioctyl sulfosuccinate	577-11-7, 53023-94-2, 51910-13-5, 52624-44-9, 59030-04-5, 60202-21-3, 66812-62-2, 67924-68-9, 75418-10-9, 76689-26-4, 78207-03-1, 105956-73-8, 106396-28-5, 110162-65-7, 113255-61-1, 130390-93-1, 135843-72-0, 138893-51-3, 141092-35-5, 201816-76-4, 202352-75-8, 209122-63-4, 209453-97-4, 835616-33-6

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch 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

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