VOLKSWAGEN



GROUP OF AMERICA

Glass Cleaner

Volkswagon of America

Version No: 1.1

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Chemwatch Hazard Alert Code: 3

Issue Date: 12/11/2019 Print Date: 12/11/2019 S.GHS.USA.EN

SECTION 1 IDENTIFICATION

Product Identifier

Product name	Glass Cleaner
Synonyms	P/N 128005
Other means of identification	PS 114467
Recommended use of the chemical and restrictions on use	

Relevant identified uses Cleaning Solution

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	Volkswagon of America	
Address	800 Hamlin Road Auburn Hills Michigan United States	
Telephone	248-754-4944	
Fax	1-248-754-4943	
Website	Not Available	
Email	Not Available	

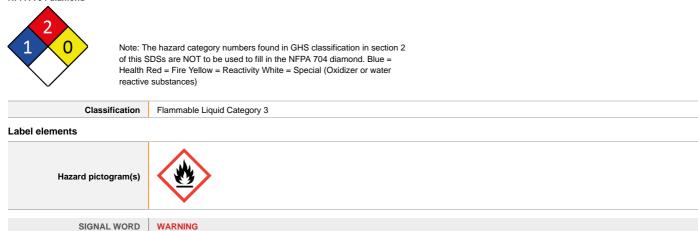
Emergency phone number

Association / Organisation	Volkswagon of America
Emergency telephone numbers	1-800-255-3924
Other emergency telephone numbers	Not Available

SECTION 2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

NFPA 704 diamond



0.01.12.1.01.1

Hazard statement(s)

H226 Flammable liquid and vapour.

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement(s) Response

P370+P378	In case of fire: Use water spray/fog for extinction.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.

Precautionary statement(s) Disposal

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

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

P501

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
7732-18-5	96.66-96.67	water
67-63-0	2.87	isopropanol
112-34-5	0.35	diethylene glycol monobutyl ether
112-53-8	<0.01	lauryl alcohol
68585-47-7	0.11	sodium mono-C10-16-alkyl sulfate

SECTION 4 FIRST-AID MEASURES

Description of first aid measures

Eye Contact	 If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: ► 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	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

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

Page 3 of 13

Glass Cleaner

Fire Incompatibility	None known.
Special protective equipment a	and precautions for fire-fighters
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) other pyrolysis products typical of burning organic material.

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 small quantities with vermiculite or other absorbent material. Wipe up. Collect residues in a flammable waste container.
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	 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 soap 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. 	
		Continued

Page 4 of 13

Glass Cleaner

	 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, inc	cluding 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	None known

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

н.				
	INCO	EDIEN	T DATA	
	INGR	EVIEN		

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US NIOSH Recommended Exposure Limits (RELs)	isopropanol	Dimethyl carbinol, IPA, Isopropanol, 2-Propanol, sec-Propyl alcohol, Rubbing alcohol	400 ppm / 980 mg/m3	1225 mg/m3 / 500 ppm	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	isopropanol	2-Propanol	200 ppm	400 ppm	Not Available	TLV® Basis: Eye & URT irr; CNS impair; BEI
US OSHA Permissible Exposure Levels (PELs) - Table Z1	isopropanol	Isopropyl alcohol	400 ppm / 980 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	diethylene glycol monobutyl ether	Diethylene glycol monobutyl ether	10 ppm	Not Available	Not Available	TLV® Basis: Hematologic, liver & kidney eff
US OSHA Permissible Exposure Levels (PELs) - Table Z3	lauryl alcohol	Inert or Nuisance Dust	5 mg/m3 / 15 mppcf	Not Available	Not Available	(Name (((d) All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.); Respirable fraction))
US OSHA Permissible Exposure Levels (PELs) - Table Z3	lauryl alcohol	Inert or Nuisance Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	(Name (((d) All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.); Total dust))
US OSHA Permissible Exposure Levels (PELs) - Table Z3	sodium mono-C10-16-alkyl sulfate	Inert or Nuisance Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	(Name (((d) All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.); Total dust))
US OSHA Permissible Exposure Levels (PELs) - Table Z3	sodium mono-C10-16-alkyl sulfate	Inert or Nuisance Dust	5 mg/m3 / 15 mppcf	Not Available	Not Available	(Name (((d) All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.); Respirable fraction))

EMERGENCY LIMITS

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
isopropanol	Isopropyl alcohol		400 ppm	2000 ppm	12000 ppm
diethylene glycol monobutyl ether	Butoxyethoxy)ethanol, 2-(2-; (Diethylene glycol monobutyl ether)		30 ppm	33 ppm	200 ppm
lauryl alcohol	Dodecyl alcohol		12 mg/m3	140 mg/m3	820 mg/m3
Ingredient	Original IDLH	Revised IDI	_H		
water	Not Available	Not Availabl	e		
isopropanol	2,000 ppm	Not Availabl	e		
diethylene glycol monobutyl ether	Not Available	Not Availabl	e		
lauryl alcohol	Not Available	Not Availabl	e		
sodium mono-C10-16-alkyl sulfate	Not Available	Not Availabl	e		

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.

Glass Cleaner

	Old35 Oldallel			
	The basic types of engineering controls are: Process controls which involve changing the way a job act Enclosure and/or isolation of emission source which keeps "adds" and "removes" air in the work environment. Ventilat ventilation system must match the particular process and c Employers may need to use multiple types of controls to pr	s a selected hazard "physically" awa tion can remove or dilute an air cont chemical or contaminant in use.	y from the worker and vent	
	General exhaust is adequate under normal operating cond essential to obtain adequate protection. Provide adequate workplace possess varying "escape" velocities which, in tu remove the contaminant.	ventilation in warehouse or closed s	storage areas. Air contamir	ants generated in the
	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 con drift, plating acid fumes, pickling (released at low velocity		ansfers, welding, spray	0.5-1 m/s (100-200 f/min.)
	direct spray, spray painting in shallow booths, drum filling generation into zone of rapid air motion)		as discharge (active	1-2.5 m/s (200-500 f/min)
	grinding, abrasive blasting, tumbling, high speed wheel go very high rapid air motion).	enerated dusts (released at high init	tial velocity into zone of	2.5-10 m/s (500-2000 f/min.)
	Within each range the appropriate value depends on:			
	Lower end of the range	Upper end of the range		
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents		
	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity		
	3: Intermittent, low production.	3: High production, heavy use		
	4: Large hood or large air mass in motion	4: Small hood - local control only		
	factors of 10 or more when extraction systems are installed	d of used.		
Personal protection				
Eye and face protection	 Safety glasses with side shields Chemical goggles. Contact lenses may pose a special hazard; soft contact the wearing of lenses or restrictions on use, should be and adsorption for the class of chemicals in use and at their removal and suitable equipment should be readily remove contact lens as soon as practicable. Lens shou a clean environment only after workers have washed h national equivalent] 	created for each workplace or task n account of injury experience. Med y available. In the event of chemical uld be removed at the first signs of e	. This should include a revi lical and first-aid personnel exposure, begin eye irriga eye redness or irritation - le	ew of lens absorption should be trained in tion immediately and ns should be removed
Skin protection	See Hand protection below			
	Wear general protective gloves, eg. light weight rubber glo The selection of suitable gloves does not only depend on t manufacturer. Where the chemical is a preparation of seve and has therefore to be checked prior to the application. The exact break through time for substances has to be obt making a final choice. Personal hygiene is a key element of effective hand care. Of washed and dried thoroughly. Application of a non-perfume Suitability and durability of glove type is dependent on usa frequency and duration of contact, chemical resistance of glove material, glove thickness and	he material, but also on further marl aral substances, the resistance of th tained from the manufacturer of the Gloves must only be worn on clean ed moisturiser is recommended.	e glove material can not be protective gloves and has t hands. After using gloves,	e calculated in advance to be observed when
Hands/feet protection	 dexterity Select gloves tested to a relevant standard (e.g. Europe El When prolonged or frequently repeated co greater than 240 minutes according to EN 374, <i>A</i> When only brief contact is expected, a glo according to EN 374, AS/NZS 2161.10.1 or natio Some glove polymer types are less affected long-term use. Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves and Excellent when breakthrough time > 480 r Good when breakthrough time > 20 min Fair when breakthrough time < 20 min 	ontact may occur, a glove with a pro AS/NZS 2161.10.1 or national equiv we with a protection class of 3 or hig onal equivalent) is recommended. ed by movement and this should be re rated as:	tection class of 5 or higher alent) is recommended. gher (breakthrough time gre	eater than 60 minutes
	-	greater than 0.35 mm, are recomme	ended.	

Page 6 of 13

Glass Cleaner

	It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. OTHERWISE: • Overalls. • Barrier cream. • Eyewash 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:

Glass	Cleaner	

Material	СРІ
NEOPRENE	А
BUTYL	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NITRILE	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVA	С
PVC	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

 $\ensuremath{\text{NOTE}}$: 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

Appearance	Clear colorless		
Physical state	Liquid	Relative density (Water = 1)	0.99 - 1.01
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	7.70	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	4.950
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	55.6	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available

Respiratory protection

Type A 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 up to 10 x ES	Half-Face Respirator A-AUS	Full-Face Respirator -	Powered Air Respirator A-PAPR-AUS / Class 1
up to 50 x ES	:	A-AUS / Class 1	-
up to 100 x ES		A-2	A-PAPR-2 ^

^ - 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 deaC)

- 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

Glass Cleaner

Continued...

Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
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	Product is considered stable and 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		ts or irritation of the respiratory tract (as classified by EC Directives using animal t exposure be kept to a minimum and that suitable control measures be used in an
Ingestion	(ICSC13733) The material has NOT been classified by EC Directives or corroborating animal or human evidence. Swallowing 10 millilitres of isopropanol may cause serious i approximately 250 millillitres. Isopropanol is twice as poison cause an initial feeling of well-being. Swallowing may cause	s with the risk of chemical pneumonitis; serious consequences may result. other classification systems as "harmful by ingestion". This is because of the lack of injury; 100 millilitres may be fatal if not properly treated. The adult single lethal dose is ious as ethanol, and the effects caused are similar, except that isopropanol does not e nausea, vomiting and diarrhea; vomiting and stomach inflammation is more n near-lethal doses also showed inco-ordination, lethargy, inactivity and loss of y be acquired.
Skin Contact		ts or skin irritation following contact (as classified by EC Directives using animal t exposure be kept to a minimum and that suitable gloves be used in an occupational
Eye	characterised by tearing or conjunctival redness (as with wi	rts per million. Splashes may cause severe eye irritation, possible burns to the cornea
Chronic	models); nevertheless exposure by all routes should be mir Long term, or repeated exposure of isopropanol may cause Repeated inhalation exposure to isopropanol may produce effects only at exposure levels that produce toxic effects in There are inconclusive reports of human sensitisation from effects of isopropanol. Animal testing showed the chronic exposure did not produce	e inco-ordination and tiredness. sleepiness, inco-ordination and liver degeneration. Animal data show developmental adult animals. Isopropanol does not cause genetic damage. skin contacts with isopropanol. Chronic alcoholics are more tolerant of the whole-body ereproductive effects. d oil", which caused an excess incidence of sinus and throat cancers in isoproanol
Chronic	models); nevertheless exposure by all routes should be mir Long term, or repeated exposure of isopropanol may cause Repeated inhalation exposure to isopropanol may produce effects only at exposure levels that produce toxic effects in There are inconclusive reports of human sensitisation from effects of isopropanol. Animal testing showed the chronic exposure did not produc NOTE: Commercial isopropanol does not contain "isopropy production workers in the past. "Isopropyl oil" is no longer for	nimised as a matter of course. e inco-ordination and tiredness. sleepiness, inco-ordination and liver degeneration. Animal data show developmental adult animals. Isopropanol does not cause genetic damage. skin contacts with isopropanol. Chronic alcoholics are more tolerant of the whole-body be reproductive effects. I oil", which caused an excess incidence of sinus and throat cancers in isoproanol ormed during production of isopropanol.
Chronic Glass Cleaner	models); nevertheless exposure by all routes should be mir Long term, or repeated exposure of isopropanol may cause Repeated inhalation exposure to isopropanol may produce effects only at exposure levels that produce toxic effects in There are inconclusive reports of human sensitisation from effects of isopropanol. Animal testing showed the chronic exposure did not produc NOTE: Commercial isopropanol does not contain "isopropy	himised as a matter of course. a inco-ordination and tiredness. sleepiness, inco-ordination and liver degeneration. Animal data show developmental adult animals. Isopropanol does not cause genetic damage. skin contacts with isopropanol. Chronic alcoholics are more tolerant of the whole-body ce reproductive effects. I oil", which caused an excess incidence of sinus and throat cancers in isoproanol
	models); nevertheless exposure by all routes should be mir Long term, or repeated exposure of isopropanol may cause Repeated inhalation exposure to isopropanol may produce effects only at exposure levels that produce toxic effects in There are inconclusive reports of human sensitisation from effects of isopropanol. Animal testing showed the chronic exposure did not produc NOTE: Commercial isopropanol does not contain "isopropy production workers in the past. "Isopropyl oil" is no longer for TOXICITY	himised as a matter of course. e inco-ordination and tiredness. sleepiness, inco-ordination and liver degeneration. Animal data show developmental adult animals. Isopropanol does not cause genetic damage. skin contacts with isopropanol. Chronic alcoholics are more tolerant of the whole-body be reproductive effects. I oil", which caused an excess incidence of sinus and throat cancers in isoproanol ormed during production of isopropanol. IRRITATION
	models); nevertheless exposure by all routes should be mir Long term, or repeated exposure of isopropanol may cause Repeated inhalation exposure to isopropanol may produce effects only at exposure levels that produce toxic effects in There are inconclusive reports of human sensitisation from effects of isopropanol. Animal testing showed the chronic exposure did not produc NOTE: Commercial isopropanol does not contain "isopropy production workers in the past. "Isopropyl oil" is no longer for TOXICITY Not Available	himised as a matter of course. a inco-ordination and tiredness. sleepiness, inco-ordination and liver degeneration. Animal data show developmental adult animals. Isopropanol does not cause genetic damage. skin contacts with isopropanol. Chronic alcoholics are more tolerant of the whole-body are reproductive effects. I oil", which caused an excess incidence of sinus and throat cancers in isoproanol ormed during production of isopropanol. IRRITATION Not Available
Glass Cleaner	models); nevertheless exposure by all routes should be mir Long term, or repeated exposure of isopropanol may cause Repeated inhalation exposure to isopropanol may produce effects only at exposure levels that produce toxic effects in There are inconclusive reports of human sensitisation from effects of isopropanol. Animal testing showed the chronic exposure did not produc NOTE: Commercial isopropanol does not contain "isopropy production workers in the past. "Isopropyl oil" is no longer for TOXICITY Not Available TOXICITY	nimised as a matter of course. a inco-ordination and tiredness. sleepiness, inco-ordination and liver degeneration. Animal data show developmental adult animals. Isopropanol does not cause genetic damage. skin contacts with isopropanol. Chronic alcoholics are more tolerant of the whole-body the reproductive effects. I oil", which caused an excess incidence of sinus and throat cancers in isoproanol ormed during production of isopropanol. IRRITATION Not Available IRRITATION
Glass Cleaner	models); nevertheless exposure by all routes should be mir Long term, or repeated exposure of isopropanol may cause Repeated inhalation exposure to isopropanol may produce effects only at exposure levels that produce toxic effects in There are inconclusive reports of human sensitisation from effects of isopropanol. Animal testing showed the chronic exposure did not produc NOTE: Commercial isopropanol does not contain "isopropy production workers in the past. "Isopropyl oil" is no longer for TOXICITY Not Available TOXICITY Oral (rat) LD50: >90000 mg/kg ^[2]	nimised as a matter of course. a inco-ordination and tiredness. sleepiness, inco-ordination and liver degeneration. Animal data show developmental adult animals. Isopropanol does not cause genetic damage. skin contacts with isopropanol. Chronic alcoholics are more tolerant of the whole-body the reproductive effects. d oil", which caused an excess incidence of sinus and throat cancers in isoproanol ormed during production of isopropanol. IRRITATION Not Available IRRITATION Not Available
Glass Cleaner	models); nevertheless exposure by all routes should be mir Long term, or repeated exposure of isopropanol may cause Repeated inhalation exposure to isopropanol may produce effects only at exposure levels that produce toxic effects in There are inconclusive reports of human sensitisation from effects of isopropanol. Animal testing showed the chronic exposure did not produc NOTE: Commercial isopropanol does not contain "isopropy production workers in the past. "Isopropyl oil" is no longer for TOXICITY Not Available TOXICITY Oral (rat) LD50: >90000 mg/kg ^[2]	himised as a matter of course. a inco-ordination and tiredness. sleepiness, inco-ordination and liver degeneration. Animal data show developmental adult animals. Isopropanol does not cause genetic damage. skin contacts with isopropanol. Chronic alcoholics are more tolerant of the whole-body be reproductive effects. I oil", which caused an excess incidence of sinus and throat cancers in isoproanol ormed during production of isopropanol. IRRITATION Not Available IRRITATION Not Available IRRITATION
Glass Cleaner water	models); nevertheless exposure by all routes should be mir Long term, or repeated exposure of isopropanol may cause Repeated inhalation exposure to isopropanol may produce effects only at exposure levels that produce toxic effects in There are inconclusive reports of human sensitisation from effects of isopropanol. Animal testing showed the chronic exposure did not produce NOTE: Commercial isopropanol does not contain "isopropy production workers in the past. "Isopropyl oil" is no longer for TOXICITY Not Available TOXICITY Oral (rat) LD50: >90000 mg/kg ^[2] TOXICITY dermal (rat) LD50: =12800 mg/kg ^[2]	nimised as a matter of course. a inco-ordination and tiredness. sleepiness, inco-ordination and liver degeneration. Animal data show developmental adult animals. Isopropanol does not cause genetic damage. skin contacts with isopropanol. Chronic alcoholics are more tolerant of the whole-body the reproductive effects. I oil", which caused an excess incidence of sinus and throat cancers in isoproanol ormed during production of isopropanol. IRRITATION Not Available IRRITATION Not Available IRRITATION Eye (rabbit): 10 mg - moderate
Glass Cleaner water	models); nevertheless exposure by all routes should be mir Long term, or repeated exposure of isopropanol may cause Repeated inhalation exposure to isopropanol may produce effects only at exposure levels that produce toxic effects in There are inconclusive reports of human sensitisation from effects of isopropanol. Animal testing showed the chronic exposure did not produce NOTE: Commercial isopropanol does not contain "isopropy production workers in the past. "Isopropyl oil" is no longer for TOXICITY Not Available TOXICITY Oral (rat) LD50: >90000 mg/kg ^[2] dermal (rat) LD50: =12800 mg/kg ^[2] Inhalation (rat) LC50: 72.6 mg/l/4h ^[2]	himised as a matter of course. a inco-ordination and tiredness. sleepiness, inco-ordination and liver degeneration. Animal data show developmental adult animals. Isopropanol does not cause genetic damage. skin contacts with isopropanol. Chronic alcoholics are more tolerant of the whole-body be reproductive effects. d oil", which caused an excess incidence of sinus and throat cancers in isoproanol ormed during production of isopropanol. IRRITATION Not Available IRRITATION Not Available IRRITATION Eye (rabbit): 10 mg - moderate Eye (rabbit): 100 mg - SEVERE
Glass Cleaner water	models); nevertheless exposure by all routes should be mir Long term, or repeated exposure of isopropanol may cause Repeated inhalation exposure to isopropanol may produce effects only at exposure levels that produce toxic effects in There are inconclusive reports of human sensitisation from effects of isopropanol. Animal testing showed the chronic exposure did not produce NOTE: Commercial isopropanol does not contain "isopropy production workers in the past. "Isopropyl oil" is no longer for TOXICITY Not Available TOXICITY Oral (rat) LD50: >90000 mg/kg ^[2] dermal (rat) LD50: =12800 mg/kg ^[2] Inhalation (rat) LC50: 72.6 mg/l/4h ^[2]	himised as a matter of course. a inco-ordination and tiredness. sleepiness, inco-ordination and liver degeneration. Animal data show developmental adult animals. Isopropanol does not cause genetic damage. skin contacts with isopropanol. Chronic alcoholics are more tolerant of the whole-body be reproductive effects. I oil", which caused an excess incidence of sinus and throat cancers in isoproanol ormed during production of isopropanol. IRRITATION Not Available IRRITATION Not Available IRRITATION Eye (rabbit): 10 mg - moderate Eye (rabbit): 100 mg - SEVERE Eye (rabbit): 100 mg - SEVERE Eye (rabbit): 100 mg - ZeVERE

	Oral (rat) LD50: =4500 mg/kg ^[2]	Eye (rabbit): 5 mg - SEVERE
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: 1500 mg/kg ^[2]	Skin (human): 75 mg/3d-I-SEVERE
lauryl alcohol	Inhalation (rat) LC50: >1.575 mg/l/6H ^[2]	
	Oral (rat) LD50: >2000 mg/kg ^[1]	
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Oral (rat) LD50: 1288 mg/kg ^[2]	Eye (rabbit): 10 mg - moderate
		Eye (rabbit):100 mg/24h-moderate
sodium mono-C10-16-alkyl sulfate		Eye (rabbit):250 ug - mild
		Skin (human): 25 mg/24h - mild
		Skin (rabbit):25 mg/24h-moderate
		Skin (rabbit):50 mg/24h - SEVERE
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute to specified data extracted from RTECS - Register of Toxic Effect of chem	
WATER	No significant acute toxicological data identified in literature search.	
ISOPROPANOL	Isopropanol is irritating to the eyes, nose and throat but generally not to the skin. Prolonged high dose exposure may also produce depression of the central nervous system and drowsiness. Few have reported skin irritation. It can be absorbed from the skin or when inhaled. Intentional swallowing is common particularly among alcoholics or suicide victims and also leads to fainting, breathing difficulty, nausea, vomiting and headache. In the absence of unconsciousness, recovery usually occurred. Repeated doses may damage the kidneys. A decrease in the frequency of mating has been found in among animals, and newborns have been found to have a greater incidence of low birth weight. Tumours of the testes have been observed in the male rat. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.	
DIETHYLENE GLYCOL MONOBUTYL ETHER	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. This category includes diethylene glycol ethyl ether (DGEE), diethylene glycol propyl ether (DGPE) diethylene glycol butyl ether (DGBE) and diethylene glycol hexyl ether (DGHE) and their acetates. Studies show that they can cause kidney and liver damage, skin and eye irritation as well as blood changes but do not cause damage to the reproductive, genetic and developmental abnormalities, sensitisation or respiratory systems. However, DGEE is reported to cause sperm insufficiency.	
LAURYL ALCOHOL	Alkyl alcohols of chain length C6-13 are absorbed from skin, when inhaled or swallowed but show evidence of little harm. They are broken down and rapidly excreted by the body. No risk to human health is expected from the use of leptidopteran pheromones. During the many years of its use as pesticides, no adverse effects have been reported. As such the U.S. EPA concludes that consumption of food containing residues of the pheromones presents no risk and allowed their use experimentally without a permit on up to 250 acres, versus the 10-acre limit imposed on other pesticides.	
SODIUM MONO-C10-16-ALKYL SULFATE	The material may produce moderate eye irritation leading to inflammatic conjunctivitis. Alkyl sulfates are irritating to the skin, harmful if swallowed and at risk o and excreted via urine. They produce dose-dependent toxicity dependir defects. However, at levels that are toxic to the mother, it may produce	of causing serious damage to the eyes. They are metabolised by the liver ng on their structure. They do not cause cancer, reproductive or genetic
Glass Cleaner & SODIUM MONO-C10-16-ALKYL SULFATE	IONO-C10-16-ALKYL Animal studies have not shown alkyl sulfates and C14-18 alpha-olefin sulfonates to cause skin sensitization. However there is anecdotal evidence to suggest sodium lauryl sulfate causes sensitization of the lung, resulting in hyperactive airway dysfunction and lung allergy	
accompanied by fatigue, malaise and aching. Significant symptoms of exposure can persist for more than two years, and can be variety of non-specific environmental stimuli, such as exhaust, perfumes and passive smoking. Airborne sulfonates may be rest respiratory allergies, and in some cases, minor skin allergies. Repeated skin contact with some sulfonated surfactants has provinflammation was sensitization in predisposed individuals. Repeat dose toxicity: The liver seems to be the only organ that is affected by repeated exposure, with elevated levels of liver elevated increase in liver weight and enlargement of liver cells being seen. Genetic toxicity: Alkyl sulfates and alkyl-olefin sulfonates do not appear to cause mutations or genetic toxicity. Cancer-causing potential: Animal testing suggested that alkyl sulfates and alpha-olefin sulfonates do not have cancer-causing Reproductive toxicity: In animal testing, these substances only caused harm to the foetus and/or offspring at levels which were mother. Developmental toxicity: Alkane sulfonates are not considered to be toxic to development.		s and passive smoking. Airborne sulfonates may be responsible for d skin contact with some sulfonated surfactants has produced skin ed by repeated exposure, with elevated levels of liver enzymes, an to cause mutations or genetic toxicity. and alpha-olefin sulfonates do not have cancer-causing potential. harm to the foetus and/or offspring at levels which were toxic to the c to development.
ISOPROPANOL & LAURYL ALCOHOL	known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible	

Page 9 of 13

LAURYL ALCOHOL & SODIUM MONO-C10-16-ALKYL SULFATE	disorder is characterized by difficulty breathing, cough and mucus production. The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. 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	×

SECTION 12 ECOLOGICAL INFORMATION

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
Glass Cleaner	Not Available	Not Available	Not Available	Not Available	Not Availabl
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
water	LC50	96	Fish	897.520mg/L	3
	EC50	96	Algae or other aquatic plants	8768.874mg/L	3
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	9-640mg/L	2
	EC50	48	Crustacea	12500mg/L	5
isopropanol	EC50	96	Algae or other aquatic plants	993.232mg/L	3
	EC0	24	Crustacea	5-102mg/L	2
	NOEC	5760	Fish	0.02mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	1-300mg/L	2
iethylene glycol monobutyl ether	EC50	48	Crustacea	4-950mg/L	2
ethor	EC50	72	Algae or other aquatic plants	1-101mg/L	2
	NOEC	96	Algae or other aquatic plants	>=100mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	0.301mg/L	3
lauryl alcohol	EC50	48	Crustacea	0.765mg/L	2
	EC50	96	Algae or other aquatic plants	0.327mg/L	3
	NOEC	504	Crustacea	0.014mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
sodium mono-C10-16-alkyl sulfate	Not Available	Not Available	Not Available	Not Available	Not Availabl
Legend:	Extracted from	1. IUCLID Toxicity Data 2. Europe ECH	A Registered Substances - Ecotoxicological Inform	ation - Aquatic Toxicity 3.	EPIWIN S

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
water	LOW	LOW
isopropanol	LOW (Half-life = 14 days)	LOW (Half-life = 3 days)
diethylene glycol monobutyl ether	LOW	LOW
lauryl alcohol	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
water	LOW (LogKOW = -1.38)
isopropanol	LOW (LogKOW = 0.05)

diethylene glycol monobutyl ether	LOW (BCF = 0.46)
lauryl alcohol	HIGH (LogKOW = 5.13)

Mobility in soil

Ingredient	Mobility
water	LOW (KOC = 14.3)
isopropanol	HIGH (KOC = 1.06)
diethylene glycol monobutyl ether	LOW (KOC = 10)
lauryl alcohol	LOW (KOC = 327.1)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods		
Product / Packaging disposal	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. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. • DO NOT allow wash water from cleaning or process equipment to enter drains. • It may be necessary to collect all wash water for treatment before disposal. • 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 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	

Land transport (DOT): 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

WATER IS FOUND ON THE FOLLOWING REGULATORY LISTS

IMO IBC Code Chapter 18: List of products to which the Code does not apply US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

ISOPROPANOL IS FOUND ON THE FOLLOWING REGULATORY LISTS

Page 11 of 13

GESAMP/EHS Composite List - GESAMP Hazard Profiles

- IMO IBC Code Chapter 17: Summary of minimum requirements
- IMO IBC Code Chapter 18: List of products to which the Code does not apply
- IMO MARPOL 73/78 (Annex II) List of Other Liquid Substances
- IMO Provisional Categorization of Liquid Substances List 2: Pollutant only mixtures containing at least 99% by weight of components already assessed by IMO
- IMO Provisional Categorization of Liquid Substances List 3: (Trade-named) mixtures containing at least 99% by weight of components already assessed by IMO, presenting safety hazards
- International Agency for Research on Cancer (IARC) Agents Classified by the IARC Monographs
- International Air Transport Association (IATA) Dangerous Goods Regulations
- International Maritime Dangerous Goods Requirements (IMDG Code)
- United Nations Recommendations on the Transport of Dangerous Goods Model Regulations
- US Alaska Limits for Air Contaminants
- US California OEHHA/ARB Acute Reference Exposure Levels and Target Organs (RELs)
- US California Permissible Exposure Limits for Chemical Contaminants
- US Hawaii Air Contaminant Limits
- US Idaho Limits for Air Contaminants
- US Idaho Toxic Air Pollutants Non- Carcinogenic Increments Occupational Exposure Limits
- US Michigan Exposure Limits for Air Contaminants
- US Minnesota Permissible Exposure Limits (PELs)
- US Oregon Permissible Exposure Limits (Z-1)
- US Tennessee Occupational Exposure Limits Limits For Air Contaminants
- US Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air

Contaminants

DIETHYLENE GLYCOL MONOBUTYL ETHER IS FOUND ON THE FOLLOWING REGULATORY LISTS

GESAMP/EHS Composite List - GESAMP Hazard Profiles

- IMO MARPOL 73/78 (Annex II) List of Other Liquid Substances
- US California OEHHA/ARB Acute Reference Exposure Levels and Target Organs

(RELs)

- US ACGIH Threshold Limit Values (TLV)
- US AIHA Workplace Environmental Exposure Levels (WEELs)
- US Chemical Footprint Project Chemicals of High Concern List
- US Clean Air Act Hazardous Air Pollutants

LAURYL ALCOHOL IS FOUND ON THE FOLLOWING REGULATORY LISTS

GESAMP/EHS Composite List - GESAMP Hazard Profiles

- IMO IBC Code Chapter 17: Summary of minimum requirements
- IMO MARPOL (Annex II) List of Noxious Liquid Substances Carried in Bulk
- IMO Provisional Categorization of Liquid Substances List 2: Pollutant only mixtures
- containing at least 99% by weight of components already assessed by IMO
- International Air Transport Association (IATA) Dangerous Goods Regulations International Maritime Dangerous Goods Requirements (IMDG Code)
- United Nations Recommendations on the Transport of Dangerous Goods Model
- Regulations

US - Oregon Permissible Exposure Limits (Z-3)

US Coast Guard, Department of Homeland Security Part 153: Ships Carrying Bulk Liquid, Liquefied gas or compressed gas hazardous materials. Table 1 to Part 153 --Summary of Minimum Requirements

SODIUM MONO-C10-16-ALKYL SULFATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs

- (RELs)
- US Idaho Toxic Air Pollutants Non- Carcinogenic Increments Occupational Exposure Limits
- US Oregon Permissible Exposure Limits (Z-3)
- US Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Flammable (Gases, Aerosols, Liquids, or Solids)

Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No

- US Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminant
- US Washington Permissible exposure limits of air contaminants
- US Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
- US ACGIH Threshold Limit Values (Spanish)
- US ACGIH Threshold Limit Values (TLV)
- US AIHA Workplace Environmental Exposure Levels (WEELs)
- US Department of Transportation (DOT), Hazardous Material Table
- US DOE Temporary Emergency Exposure Limits (TEELs)
- US DOT Coast Guard Bulk Hazardous Materials List of Flammable and Combustible **Bulk Liquid Cargoes**
- US EPCRA Section 313 Chemical List
- US NIOSH Recommended Exposure Limits (RELs)
- US NIOSH Recommended Exposure Limits (RELs) (Spanish)
- US OSHA Permissible Exposure Levels (PELs) Table Z1
- US OSHA Permissible Exposure Limits Annotated Table Z-1 (Spanish)
- US Postal Service (USPS) Hazardous Materials Table: Postal Service Mailability Guide US Postal Service (USPS) Numerical Listing of Proper Shipping Names by
- Identification (ID) Number

US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants

- US Toxic Substances Control Act (TSCA) Chemical Substance Inventory
- US TSCA Chemical Substance Inventory Interim List of Active Substances US TSCA Section 4/12 (b) - Sunset Dates/Status
- US DOE Temporary Emergency Exposure Limits (TEELs)
- US DOT Coast Guard Bulk Hazardous Materials List of Flammable and Combustible **Bulk Liquid Cargoes**

US EPCRA Section 313 Chemical List

- US Toxic Substances Control Act (TSCA) Chemical Substance Inventory
- US TSCA Chemical Substance Inventory Interim List of Active Substances
- US TSCA Section 4/12 (b) Sunset Dates/Status
- US Department of Transportation (DOT), Hazardous Material Table
- US DOE Temporary Emergency Exposure Limits (TEELs)
- US DOT Coast Guard Bulk Hazardous Materials List of Flammable and Combustible **Bulk Liquid Cargoes**
- US OSHA Permissible Exposure Levels (PELs) Table Z3

US OSHA Permissible Exposure Levels (PELs) - Table Z3

- US Postal Service (USPS) Hazardous Materials Table: Postal Service Mailability Guide US Postal Service (USPS) Numerical Listing of Proper Shipping Names by Identification (ID) Number
- US Toxic Substances Control Act (TSCA) Chemical Substance Inventory
- US TSCA Chemical Substance Inventory Interim List of Active Substances
- US Toxic Substances Control Act (TSCA) Chemical Substance Inventory US TSCA Chemical Substance Inventory - Interim List of Active Substances

Yes

Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	No
Specific target organ toxicity (single or repeated exposure)	No
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

None Reported

State Regulations

US. CALIFORNIA PROPOSITION 65

None Reported

National Inventory Status

National Inventory	Status
Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	No (diethylene glycol monobutyl ether; sodium mono-C10-16-alkyl sulfate; water; lauryl alcohol; isopropanol)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (sodium mono-C10-16-alkyl sulfate)
Vietnam - NCI	Yes
Russia - ARIPS	No (sodium mono-C10-16-alkyl sulfate)
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	12/11/2019
Initial Date	12/12/2019

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_\circ

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

LV. Threshold Limit va

LOD: Limit Of Detection

OTV: Odour Threshold Value BCF: BioConcentration Factors Page 13 of 13

Glass Cleaner

BEI: Biological Exposure Index

Powered by AuthorITe, from Chemwatch.