

Peter G's	Chemwatch Hazard Alert Code: 3
Chemwatch: 6013-27	Issue Date: 29/08/2024
Version No: 2.1	Print Date: 30/08/2024
Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements	S.GHS.AUS.EN

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

Product Identifier	
Product name	Peter G's Dishwashing Liquid Concentrate
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses	Concentrated dishwashing detergent for hard and salt water. Use according to manufacturer's directions.	
etails of the manufacturer or	supplier of the safety data sheet	
Registered company name	Peter G's	
Address	22 Denninup Way Malaga WA 6090 Australia	
Telephone	0429 521 651	
Fax	Not Available	
Website	https://www.petergs.com.au/	
Email	orders@petergs.com.au	

Emergency telephone number

Association / Organisation	Shaun Duffy	CHEMWATCH EMERGENCY RESPONSE (24/7)	
Emergency telephone numbers	0439 950 165 (Mon – Fri 9am – 4.30pm)	+61 1800 951 288	
Other emergency telephone numbers	Not Available	+61 3 9573 3188	

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

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

Poisons Schedule	Not Applicable	
Classification ^[1]	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 1, Carcinogenicity Category 1A, Hazardous to the Aquatic Environment Acute Hazard Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 3	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Label elements

Signal word

Danger

Hazard statement(s)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H350	May cause cancer.
H401	Toxic to aquatic life.

H412	Harmful to aquatic life with long lasting effects.	
recautionary statement(s) Pre	evention	
P201	Obtain special instructions before use.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P264	Wash all exposed external body areas thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P273	Avoid release to the environment.	
recautionary statement(s) Re P305+P351+P338	sponse IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P308+P313	IF exposed or concerned: Get medical advice/ attention.	
P310	Immediately call a POISON CENTER/doctor/physician/first aider.	
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P330	Rinse mouth.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
recautionary statement(s) Sto	- 	
recautionary statement(s) Sto	naye	

P405 Store locked up.

Precautionary statement(s) Disposal

P501

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

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
1310-73-2	1-10	sodium hydroxide
68584-22-5	10-30	(C10-16)alkylbenzenesulfonic acid
2682-20-4	<1	2-methyl-4-isothiazolin-3-one
2634-33-5	<1	1.2-benzisothiazoline-3-one
68585-34-2	10-30	sodium lauryl ether sulfate
68603-42-9	1-10	coconut diethanolamide
8000-48-4	<1	eucalyptus oil
Not Available	balance	Ingredients determined not to be hazardous
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

SECTION 4 First aid measures

Description of first aid measur	es
Eye Contact	 If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes 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.
Ingestion	 IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.

Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:

 INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (headdown position, if possible) to maintain open airway and prevent aspiration.

NOTE: Wear a protective glove when inducing vomiting by mechanical means.

Indication of any immediate medical attention and special treatment needed

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- + Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994 Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

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

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

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

Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

Advice for firefighters

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

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	 Absorb or contain isothiazolinone liquid spills with sand, earth, inert material or vermiculite. The absorbent (and surface soil to a depth sufficient to remove all of the biocide) should be shovelled into a drum and treated with an 11% solution of sodium metabisulfite (Na2S2O5) or sodium bisulfite (NaHSO3), or 12% sodium sulfite (Na2SO3) and 8% hydrochloric acid (HCI). Glutathione has also been used to inactivate the isothiazolinones. Use 20 volumes of decontaminating solution for each volume of biocide, and let containers stand for at least 30 minutes to deactivate microbicide before disposal. If contamination of drains or waterways occurs, advise emergency services. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.

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. 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	 Lined metal can, lined metal pail/ can. Plastic pail. Polyliner drum. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid strong bases.

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	sodium hydroxide	Sodium hydroxide	•	Not Availab	le	Not Available		2 mg/m3	Not Available
Emergency Limits									
Ingredient	TEEL-1		TEEL-2				TEEL	-3	
sodium hydroxide	Not Available		Not Avai	ilable			Not A	vailable	
Ingredient	Original IDLH				Revise	d IDLH			
sodium hydroxide	10 mg/m3				Not Ava	ailable			
(C10-16)alkylbenzenesulfonic acid	Not Available				Not Ava	ailable			
2-methyl-4-isothiazolin-3-one	Not Available				Not Ava	ailable			
1,2-benzisothiazoline-3-one	Not Available				Not Ava	ailable			
sodium lauryl ether sulfate	Not Available				Not Ava	ailable			
coconut diethanolamide	Not Available				Not Ava	ailable			
eucalyptus oil	Not Available				Not Ava	ailable			

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
(C10-16)alkylbenzenesulfonic acid	С	> 1 to ≤ 10 parts per million (ppm)
2-methyl-4-isothiazolin-3-one	D	> 0.01 to \leq 0.1 mg/m ³
1,2-benzisothiazoline-3-one	E	≤ 0.01 mg/m³
sodium lauryl ether sulfate	E	≤ 0.01 mg/m³
coconut diethanolamide	E	≤ 0.1 ppm
eucalyptus oil	E	≤ 0.1 ppm
Notes:	Occupational exposure banding is a process of assigning chemicals intr adverse health outcomes associated with exposure. The output of this p	process is an occupational exposure band (OEB), which corresponds

to a range of exposure concentrations that are expected to protect worker health.

Exposure controls

	advance and has therefore to be checked prior to the applica The exact break through time for substances has to be obtai when making a final choice. Personal hygiene is a key element of effective hand care. Gl washed and dried thoroughly. Application of a non-perfumed Suitability and durability of glove type is dependent on usage · frequency and duration of contact, · chemical resistance of glove material,	ned from the manufacturer of the protective gloves and h oves must only be worn on clean hands. After using glov moisturiser is recommended.			
nands/reet protection	 Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predispose equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and wi The selection of suitable gloves does not only depend on the manufacturer. Where the chemical is a preparation of several 	atch-bands should be removed and destroyed. e material, but also on further marks of quality which vary	from manufacturer to		
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. 				
Eye and face protection	 Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national e Contact lenses may pose a special hazard; soft contact I describing the wearing of lenses or restrictions on use, s lens absorption and adsorption for the class of chemicals should be trained in their removal and suitable equipmer irrigation immediately and remove contact lens as soon a irritation - lens should be removed in a clean environmer Intelligence Bulletin 59]. See Hand protection below 	enses may absorb and concentrate irritants. A written po hould be created for each workplace or task. This should s in use and an account of injury experience. Medical and it should be readily available. In the event of chemical ex as practicable. Lens should be removed at the first signs	l include a review of d first-aid personnel posure, begin eye of eye redness or		
Individual protection measures, such as personal protective equipment					
	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 extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.				
	3: Intermittent, low production.	3: High production, heavy use			
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity			
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents			
	Lower end of the range	Upper end of the range			
	of very high rapid air motion). Within each range the appropriate value depends on:		2000 f/min.)		
	grinding, abrasive blasting, tumbling, high speed wheel ge	nerated dusts (released at high initial velocity into zone	2.5-10 m/s (500-		
controls	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)		1-2.5 m/s (200- 500 f/min.)		
Appropriate engineering	aerosols, fumes from pouring operations, intermittent conta spray drift, plating acid fumes, pickling (released at low vel		100 f/min.) 0.5-1 m/s (100- 200 f/min.)		
	solvent, vapours, degreasing etc., evaporating from tank (i	n still air).	0.25-0.5 m/s (50-		
	Provide adequate ventilation in warehouse or closed storage velocities which, in turn, determine the "capture velocities" of Type of Contaminant:				
	Local exhaust ventilation usually required. If risk of overexpo protection. Supplied-air type respirator may be required in sp An approved self contained breathing apparatus (SCBA) ma	pecial circumstances. Correct fit is essential to ensure ad y be required in some situations.	equate protection.		
	Engineering controls are used to remove a hazard or place a can be highly effective in protecting workers and will typically The basic types of engineering controls are: Process controls which involve changing the way a job activi Enclosure and/or isolation of emission source which keeps a strategically "adds" and "removes" air in the work environme design of a ventilation system must match the particular proc Employers may need to use multiple types of controls to prev	v be independent of worker interactions to provide this high ty or process is done to reduce the risk. selected hazard "physically" away from the worker and nt. Ventilation can remove or dilute an air contaminant if tess and chemical or contaminant in use.	yh level of protection. ventilation that		

	 dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 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. As defined in ASTM F-739-96 in any application, gloves are rated as: Excellent when breakthrough time > 480 min Good when breakthrough time < 20 min Fair when breakthrough time < 20 min Poor when glove material degrades For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. 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 of varying thickness may be required for specific ctasks. 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. wh
De du meste stien	Nitrile rubber gloves (Note: Nitric acid penetrates nitrile gloves in a few minutes.)
Body protection	See Other protection below
Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.

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

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

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance Green liquid with pleasant fragrance. Physical state Relative density (Water = 1) Not Available Liquid Partition coefficient n-octanol Odour Not Available Not Available / water Auto-ignition temperature Odour threshold Not Available Not Available (°C) Decomposition pH (as supplied) 7.0-7.5 Not Available temperature (°C) Melting point / freezing point Not Available Not Available Viscosity (cSt) (°C) Initial boiling point and Not Available Molecular weight (g/mol) Not Applicable boiling range (°C) Not Available Flash point (°C) Not Available Taste Evaporation rate Not Available Explosive properties Not Available Flammability Not Available **Oxidising properties** Not Available Surface Tension (dyn/cm or Upper Explosive Limit (%) Not Available Not Available mN/m) Lower Explosive Limit (%) Not Available Volatile Component (%vol) Not Available Not Available Not Available Vapour pressure (kPa) Gas group Solubility in water Miscible pH as a solution (1%) Not Available Vapour density (Air = 1) VOC a/L Not Available Not Available Heat of Combustion (kJ/g) Not Available Ignition Distance (cm) Not Available Not Available Flame Duration (s) Not Available Flame Height (cm) **Enclosed Space Ignition Enclosed Space Ignition** Not Available Not Available Time Equivalent (s/m3) Deflagration Density (g/m3)

SECTION 10 Stability and reactivity

Reactivity See section 7

Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5
SECTION 11 Toxicological in	formation

Information on toxicological effects

Inhaled	vapours, fumes or aerosols, especially for prolonged pe	on (as classified by EC Directives using animal models). Nevertheless inhalation of riods, may produce respiratory discomfort and occasionally, distress. ted by the material during the course of normal handling, may be damaging to the
Ingestion	Accidental ingestion of the material may be harmful; ani produce serious damage to the health of the individual. Ingestion of anionic surfactants may produce diarrhoea,	mal experiments indicate that ingestion of less than 150 gram may be fatal or may bloated stomach, and occasional vomiting.
Skin Contact	Open cuts, abraded or irritated skin should not be expose Entry into the blood-stream, through, for example, cuts, skin prior to the use of the material and ensure that any	condition f the individual; systemic effects may result following absorption. red to this material abrasions or lesions, may produce systemic injury with harmful effects. Examine the
Eye	If applied to the eyes, this material causes severe eye d Direct eye contact with some anionic surfactants in high cause discomfort, excess blood flow, and corneal cloudi	concentration can cause severe damage to the cornea. Low concentrations can
	Strong evidence exists that this substance may cause ir	produce cumulative health effects involving organs or biochemical systems. reversible mutations (though not lethal) even following a single exposure. ensitisation reaction in some persons compared to the general population.
Chronic	This material can cause serious damage if one is exposed produce severe defects. Ample evidence exists that this material directly causes Ample evidence exists that developmental disorders are Studies show that inhaling this substance for over a long Ample evidence exists from experimentation that reduce Ample evidence exists, from results in experimentation, Prolonged or repeated skin contact may cause degreasi There has been concern that this material can cause can be appled and the second se	directly caused by human exposure to the material. g period (e.g. in an occupational setting) may increase the risk of cancer. d human fertility is directly caused by exposure to the material. that developmental disorders are directly caused by human exposure to the material ng, followed by drying, cracking and skin inflammation. ncer or mutations, but there is not enough data to make an assessment. the erosion of teeth, swelling and/or ulceration of mouth lining. Irritation of airways to
		occurs.
Peter G's Dishwashing Liquid	TOXICITY	IRRITATION
Peter G's Dishwashing Liquid Concentrate		
	тохісіту	IRRITATION
	TOXICITY Not Available	IRRITATION Not Available
	TOXICITY Not Available TOXICITY	IRRITATION Not Available IRRITATION
	TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1350 mg/kg ^[2]	IRRITATION Not Available IRRITATION Eye (rabbit): 0.05 mg/24h SEVERE
Concentrate	TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1350 mg/kg ^[2]	IRRITATION Not Available IRRITATION Eye (rabbit): 0.05 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE
Concentrate	TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1350 mg/kg ^[2]	IRRITATION Not Available IRRITATION Eye (rabbit): 0.05 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/30s rinsed-SEVERE
Concentrate	TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1350 mg/kg ^[2]	IRRITATION Not Available IRRITATION Eye (rabbit): 0.05 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/30s rinsed-SEVERE Eye: adverse effect observed (irritating) ^[1]
Concentrate	TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1350 mg/kg ^[2]	IRRITATION Not Available IRRITATION Eye (rabbit): 0.05 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/30s rinsed-SEVERE Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 500 mg/24h SEVERE
Concentrate sodium hydroxide	TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1350 mg/kg ^[2] Oral (Rabbit) LD50; 325 mg/kg ^[1]	IRRITATION Not Available IRRITATION Eye (rabbit): 0.05 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/30s rinsed-SEVERE Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 500 mg/24h SEVERE Skin: adverse effect observed (corrosive) ^[1]
Concentrate sodium hydroxide	TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1350 mg/kg ^[2] Oral (Rabbit) LD50; 325 mg/kg ^[1] TOXICITY TOXICITY	IRRITATION Not Available IRRITATION Eye (rabbit): 0.05 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/30s rinsed-SEVERE Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 500 mg/24h SEVERE Skin: adverse effect observed (corrosive) ^[1] IRRITATION
Concentrate sodium hydroxide (C10-16)alkylbenzenesulfonic	TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1350 mg/kg ^[2] Oral (Rabbit) LD50; 325 mg/kg ^[1]	IRRITATION Not Available IRRITATION Eye (rabbit): 0.05 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/30s rinsed-SEVERE Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 500 mg/24h SEVERE Skin: adverse effect observed (corrosive) ^[1] IRRITATION Eye: adverse effect observed (irritating) ^[1]
Concentrate sodium hydroxide (C10-16)alkylbenzenesulfonic	TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1350 mg/kg ^[2] Oral (Rabbit) LD50; 325 mg/kg ^[1] TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation (Rat) LC50: >1.9 mg/(4h ^[1])	IRRITATION Not Available IRRITATION Eye (rabbit): 0.05 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/30s rinsed-SEVERE Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 500 mg/24h SEVERE Skin: adverse effect observed (corrosive) ^[1] IRRITATION Eye: adverse effect observed (irritating) ^[1]
Concentrate sodium hydroxide C10-16)alkylbenzenesulfonic	TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1350 mg/kg ^[2] Oral (Rabbit) LD50; 325 mg/kg ^[1] Oral (Rabbit) LD50; 325 mg/kg ^[1] dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation (Rat) LC50: >1.9 mg/l4h ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1]	IRRITATION Not Available IRRITATION Eye (rabbit): 0.05 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/30s rinsed-SEVERE Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 500 mg/24h SEVERE Skin: adverse effect observed (corrosive) ^[1] IRRITATION Eye: adverse effect observed (irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1]
Concentrate sodium hydroxide (C10-16)alkylbenzenesulfonic acid	TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1350 mg/kg ^[2] Oral (Rabbit) LD50; 325 mg/kg ^[1] Oral (Rabbit) LD50; 325 mg/kg ^[1] Intervention TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation (Rat) LC50: >1.9 mg/l4h ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] TOXICITY	IRRITATION Not Available IRRITATION Eye (rabbit): 0.05 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/30s rinsed-SEVERE Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 500 mg/24h SEVERE Skin: adverse effect observed (corrosive) ^[1] IRRITATION Eye: adverse effect observed (irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] IRRITATION Eye: adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] Eye: adverse effect observed (not irritating) ^[1] Eye: adverse effect observed (irreversible damage) ^[1]
Concentrate sodium hydroxide (C10-16)alkylbenzenesulfonic acid	TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1350 mg/kg ^[2] Oral (Rabbit) LD50; 325 mg/kg ^[1] TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation (Rat) LC50: >1.9 mg/l4h ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1]	IRRITATION Not Available IRRITATION Eye (rabbit): 0.05 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/30s rinsed-SEVERE Eye (rabbit): 1 mg/30s rinsed-SEVERE Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 500 mg/24h SEVERE Skin: adverse effect observed (corrosive) ^[1] IRRITATION Eye: adverse effect observed (irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] IRRITATION Eye: adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1]
Concentrate sodium hydroxide (C10-16)alkylbenzenesulfonic	TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1350 mg/kg ^[2] Oral (Rabbit) LD50; 325 mg/kg ^[1] Oral (Rabbit) LD50; 325 mg/kg ^[1] Inhalation (Rat) LD50: >2000 mg/kg ^[1] Inhalation (Rat) LC50: >1.9 mg/l4h ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation (Rat) LC50: >1.9 mg/l4h ^[1] Oral (Rat) LD50: 242 mg/kg ^[1] Inhalation (Rat) LC50: 0.1 mg/l4h ^[1] Oral (Rat) LD50: 120 mg/kg ^[1]	IRRITATION Not Available IRRITATION Eye (rabbit): 0.05 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/30s rinsed-SEVERE Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 500 mg/24h SEVERE Skin: adverse effect observed (corrosive) ^[1] IRRITATION Eye: adverse effect observed (irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (irreversible damage) ^[1] Skin: adverse effect observed (corrosive) ^[1]
sodium hydroxide (C10-16)alkylbenzenesulfonic acid 2-methyl-4-isothiazolin-3-one	TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1350 mg/kg ^[2] Oral (Rabbit) LD50; 325 mg/kg ^[1] Oral (Rabbit) LD50; 325 mg/kg ^[1] Inhalation (Rat) LD50: >2000 mg/kg ^[1] Inhalation (Rat) LC50: >1.9 mg/l4h ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation (Rat) LC50: >1.9 mg/l4h ^[1] Oral (Rat) LD50: 242 mg/kg ^[1] Inhalation (Rat) LC50: 0.1 mg/l4h ^[1] Oral (Rat) LD50: 120 mg/kg ^[1] TOXICITY	IRRITATION Not Available IRRITATION Eye (rabbit): 0.05 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/30s rinsed-SEVERE Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 500 mg/24h SEVERE Skin: adverse effect observed (corrosive) ^[1] IRRITATION Eye: adverse effect observed (irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] Skin: adverse effect observed (irreversible damage) ^[1] Skin: adverse effect observed (corrosive) ^[1] Skin: adverse effect observed (corrosive) ^[1] Skin: adverse effect observed (corrosive) ^[1]
Concentrate sodium hydroxide (C10-16)alkylbenzenesulfonic acid	TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1350 mg/kg ^[2] Oral (Rabbit) LD50; 325 mg/kg ^[1] Oral (Rabbit) LD50; 325 mg/kg ^[1] Inhalation (Rat) LD50: >2000 mg/kg ^[1] Inhalation (Rat) LC50: >1.9 mg/l4h ^[1] Oral (Rat) LD50: >2000 mg/kg ^[1] TOXICITY dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation (Rat) LC50: >1.9 mg/l4h ^[1] Oral (Rat) LD50: 242 mg/kg ^[1] Inhalation (Rat) LC50: 0.1 mg/l4h ^[1] Oral (Rat) LD50: 120 mg/kg ^[1]	IRRITATION Not Available IRRITATION Eye (rabbit): 0.05 mg/24h SEVERE Eye (rabbit): 1 mg/24h SEVERE Eye (rabbit): 1 mg/30s rinsed-SEVERE Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 500 mg/24h SEVERE Skin: adverse effect observed (corrosive) ^[1] IRRITATION Eye: adverse effect observed (irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (irreversible damage) ^[1] Skin: adverse effect observed (corrosive) ^[1]

	Oral (Rat) LD50: 1600 mg/kg ^[2]	Skin (rabbit):25 mg/24 hr moderate
	ΤΟΧΙΟΙΤΥ	IRRITATION
coconut diethanolamide	Inhalation (Rat) LC50: 44 ppm4h ^[2]	Not Available
	Oral (Rat) LD50: 2700 mg/kg ^[2]	
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: 2480 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]
eucalyptus oil	Oral (Rat) LD50: 2480 mg/kg ^[2]	Skin (rabbit): 500 mg/24h - mod
		Skin: adverse effect observed (irritating) ^[1]
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute specified data extracted from RTECS - Register of Toxic Effect of che	e toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise mical Substances
Peter G's Dishwashing Liquid Concentrate	itself causes little or no sensitization, but is transformed into a hapte always possible to know whether a particular allergen that is not dire Prohaptens: Compounds that are bioactivated in the skin and theret prohapten being activated cannot be avoided by outside measures. fragrance substances. Various enzymes play roles in both activating recognized and grouped into chemical classes based on knowledge studies of sensitization.	s that cause an immune response only when attached to a carrier reactive, but require previous activation. A prehapten is a chemical that n in the skin (bioactivation), usually via enzyme catalysis. It is not ectly reactive acts as a prehapten or a prohapten, or both. by form haptens are referred to prohaptens. The possibility of a Activation processes increase the risk for cross-reactivity between and deactivating prohaptens. Skin-sensitizing prohaptens can be
SODIUM HYDROXIDE	The material may cause severe skin irritation after prolonged or reper production of vesicles, scaling and thickening of the skin. Repeated	eated exposure and may produce on contact skin redness, swelling, th exposures may produce severe ulceration.
2-METHYL-4-ISOTHIAZOLIN-3- ONE	Considered to be a minor sensitiser in Kathon CG (1) (1). Bruze etal Based on laboratory and animal testing, exposure to the material ma Formaldehyde generators (releasers) are often used as preservative 0.2% and must be labelled with the warning sign "contains formalde formaldehyde-releasing preservatives ensures that the level of free i microbial growth - it disrupts metabolism to cause death of the orgar produce amines capable of causing cancers (nitrosamines) when us NOTE: Substance has been shown to be mutagenic in at least one a to cellular DNA.	ay result in irreversible effects and mutations in humans. s. The maximum authorised concentration of free formaldehyde is hyde" where the concentration exceeds 0.05%. The use of formaldehyde in the products is always low but sufficient to inhibit hism. However there is a concern that formaldehyde generators can
1,2-BENZISOTHIAZOLINE-3- ONE	alpha-dicarbonyl metabolites and thioamide derivatives. The well-es the speculation that thiazole toxicity is attributed to ring scission yiel been observed in benzothiazoles. For instance, benzothiazole itself Acute toxicity data show that 1,2-benzisothiazoline-3-one (BIT) is r a severe eye irritant. Irritation to the skin from acute data show only significant skin irritation response. The neurotoxicity observed in the rat acute oral toxicity study (piloen decreased activity, prostration, decreased abdominal muscle tone, r 900 mg/kg) and the acute dermal toxicity study (upward curvature of after day 5 post-dose at a dose of 2000 mg/kg) were felt to be at exp pesticide and that such effects would not be observed at estimated Subchronic oral toxicity studies showed systemic effects after rep incidence of forestomach hyperplasia, and non-glandular stomach le and included alterations in blood chemistry (decreased plasma albun absolute liver weight. Developmental toxicity studies were conducted in rats with matern	is converted to S-methylmercaptoaniline. moderately toxic by the oral and dermal routes but that this chemical is mild skin irritation , but repeated dermal application indicated a more ection and upward curvature of the spine at 300 mg/kg and above; educed righting reflex, and decreased rate and depth of breathing at t the spine was observed in increased incidence, but this was absent posures in excess of those expected from the use pattern of this exposure doses. eated oral administration including decreased body weight, increased asions in rats. In dogs, the effects occurred at lower doses than in rats, min, total protein, and alanine aminotransferase) and increased hal effects including decreased body weight gain, decreased food staining of the anogenital region, dry brown material around the nasal d of increases in skeletal abnormalities (extra sites of ossification of rmalities. rental toxicity was observed at 500 ppm and was characterized by ppm and consisted of preputial separation in males and impaired
SODIUM LAURYL ETHER SULFATE	* [CESIO] Polyethers (such as ethoxylated surfactants and polyethylene glycol complex mixtures of oxidation products. Animal testing reveals that whole the pure, non-oxidised surfactant i oxidization products also cause irritation. Alcohol ethoxysulfates (AES) are of low acute toxicity. Neat AES are	s non-sensitizing, many of the oxidation products are sensitisers. The
	substance is becoming more common. Alkanolamides are manufactured by condensation of diethanolamine The chemicals in the Fatty Nitrogen Derived (FND) Amides are gene	erally similar in terms of physical and chemical properties,
COCONUT DIETHANOLAMIDE	apparent organ specific toxicity, mutation, reproductive or development DEA has low acute toxicity if ingested orally or applied on the skin. If	t can cause moderate skin irritation and severe eye irritation. It may idney. It has not been shown to cause cancer in humans; though there

Fragrance allergens act as haptens, which are small molecules that cause an immune reaction only when attached to a carrier protein. However, not all sensitizing fragrance chemicals are directly reactive, but some require previous activation. A prehapten is a chemical that itself causes little or no sensitization, but it is transformed into a hapten outside the skin by a chemical reaction (oxidation in air or reaction with light) without the requirement of an enzyme. For prehaptens, it is possible to prevent activation outside the body to a certain extent by different measures, for example, prevention of air exposure during handling and storage of the ingredients and the final product, and by the addition of suitable antioxidants. When antioxidants are used, care should be taken that they will not be activated themselves, and thereby form new sensitisers, Prehaptens: Most terpenes with oxidisable allylic positions can be expected to self-oxidise on air exposure. Depending on the stability of the oxidation products that are formed, the oxidized products will have differing levels of sensitization potential. Tests shows that air exposure of lavender oil increased the potential for sensitization. Prohaptens: Compounds that are bioactivated in the skin and thereby form haptens are referred to prohaptens. The possibility of a prohapten being activated cannot be avoided by outside measures. Activation processes increase the risk for cross-reactivity between fragrance substances. Various enzymes play roles in both activating and deactivating prohaptens. Skin-sensitizing prohaptens can be recognized and grouped into chemical classes based on knowledge of xenobiotic bioactivation reactions, clinical observations and/or studies of sensitization QSAR prediction: Prediction of sensitization activity of these substances is complex, especially for those substances that can act both as pre- and prohaptens The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact Peter G's Dishwashing Liquid Concentrate & 2-METHYL-4urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation **ISOTHIAZOLIN-3-ONE & 1.2**potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance BENZISOTHIAZOLINE-3-ONE which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come & EUCALYPTUS OIL into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested. Adverse reactions to fragrances in perfumes and fragranced cosmetic products include allergic contact dermatitis, irritant contact dermatitis, sensitivity to light, immediate contact reactions, and pigmented contact dermatitis. Airborne and connubial contact dermatitis occurs. Contact allergy is a lifelong condition, so symptoms may occur on re-exposure. Allergic contact dermatitis can be severe and widespread, with significant impairment of quality of life and potential consequences for fitness for work. If the perfume contains a sensitizing component, intolerance to perfumes by inhalation may occur. Symptoms may include general unwellness, coughing, phlegm, wheezing, chest tightness, headache, shortness of breath with exertion, acute respiratory illness, hayfever, asthma and other respiratory diseases. Perfumes can induce excess reactivity of the airway without producing allergy or airway obstruction. Breathing through a carbon filter mask had no protective effect. Occupational asthma caused by perfume substances, such as isoamyl acetate, limonene, cinnamaldehyde and benzaldehyde, tend to give persistent symptoms, even though the exposure is below occupational exposure limits. Prevention of contact sensitization to fragrances is an important objective of public health risk management. Hands: Contact sensitization may be the primary cause of hand eczema or a complication of irritant or atopic hand eczema. However hand eczema is a disease involving many factors, and the clinical significance of fragrance contact allergy in severe, chronic hand eczema may not be clear Underarm: Skin inflammation of the armpits may be caused by perfume in deodorants and, if the reaction is severe, it may spread down the Peter G's Dishwashing Liquid arms and to other areas of the body. In individuals who consulted a skin specialist, a history of such first-time symptoms was significantly Concentrate & EUCALYPTUS related to the later diagnosis of perfume allergy. Face: An important manifestation of fragrance allergy from the use of cosmetic products is eczema of the face. In men, after-shave products can cause eczema around the beard area and the adjacent part of the neck. Men using wet shaving as opposed to dry have been , shown to have an increased risk of allergic to fragrances. Irritant reactions: Some individual fragrance ingredients, such as citral, are known to be irritant. Fragrances may cause a dose-related contact urticaria (hives) which is not allergic; cinnamal, cinnamic alcohol and Myroxylon pereirae are known to cause hives, but others, including menthol, vanillin and benzaldehyde have also been reported. Pigmentary anomalies: Type IV allergy is responsible for "pigmented cosmetic dermatitis", referring to increased pigmentation on the face and neck. Testing showed a number of fragrance ingredients were associated, including jasmine absolute, ylang-ylang oil, cananga oil, benzyl salicylate, hydroxycitronellal, sandalwood oil, geraniol and geranium oil. Light reactions: Musk ambrette produced a number of allergic reactions mediated by light and was later banned from use in Europe. Furocoumarins (psoralens) in some plant-derived fragrances have caused phototoxic reactions, with redness. There are now limits for the amount of furocoumarins in fragrances. Phototoxic reactions still occur, but are rare. General/respiratory: Fragrances are volatile, and therefore, in addition to skin exposure, a perfume also exposes the eyes and the nose / airway. It is estimated that 2-4% of the adult population is affected by respiratory or eye symptoms by such an exposure. It is known that exposure to fragrances may exacerbate pre-existing asthma. Asthma-like symptoms can be provoked by sensory mechanisms. A significant association was found between respiratory complaints related to fragrances and contact allergy to fragrance ingredients and hand eczema. In light of potential adverse effects, and to ensure a harmonised risk assessment and management, the EU regulatory framework for biocides has been established with the objective of ensuring a high level of protection of human and animal health and the environment. To this aim, it is required that risk assessment of biocidal products is carried out before they can be placed on the market. A central element in the risk assessment of the biocidal products are the utilization instructions that defines the dosage, application method and amount of applications and thus the exposure of humans and the environment to the biocidal substance. Peter G's Dishwashing Liquid Humans may be exposed to biocidal products in different ways in both occupational and domestic settings. Many biocidal products are Concentrate & 2-METHYL-4intended for industrial sectors or professional uses only, whereas other biocidal products are commonly available for private use by non-**ISOTHIAZOLIN-3-ONE & 1.2**professional users. In addition, potential exposure of non-users of biocidal products (i.e. the general public) may occur indirectly via the **BENZISOTHIAZOLINE-3-ONE** environment, for example through drinking water, the food chain, as well as through atmospheric and residential exposure. Particular attention should be paid to the exposure of vulnerable sub-populations, such as the elderly, pregnant women, and children. Also pets and other domestic animals can be exposed indirectly following the application of biocidal products. Furthermore, exposure to biocides may vary in terms of route (inhalation, dermal contact, and ingestion) and pathway (food, drinking water, residential, occupational) of exposure, level, frequency and duration. Peter G's Dishwashing Liquid Concentrate & (C10-16)ALKYLBENZENESULFONIC ACID & 2-METHYL-4-ISOTHIAZOLIN-3-ONE & 1,2-No significant acute toxicological data identified in literature search **BENZISOTHIAZOLINE-3-ONE** & SODIUM LAURYL ETHER SULFATE & COCONUT DIETHANOLAMIDE Peter G's Dishwashing Liquid In a study of dermal application in mice, coconut oil diethanolamine condensate (coconut diethanolamide) increased the incidence of Concentrate & COCONUT hepatocellular carcinoma and hepatocellular adenoma in males and females, and of hepatoblastoma in males. The incidence of renal DIETHANOLAMIDE tubule adenoma and carcinoma combined was also increased in males. In a study of dermal application in rats, no increase in tumour incidence was observed. Tumours of the kidney and hepatoblastoma are rare spontaneous neoplasms in experimental animals The carcinogenic effects of the coconut oil diethanolamine condensate used in the cancer bioassay may be due to the levels of diethanolamine (18.2%) in the solutions tested. Mechanistic data are very weak to evaluate the carcinogenic potential of coconut oil diethanolamine condensate per se According to IARC: Coconut oil diethanolamine condensate is possibly carcinogenic to humans (Group 2B)

	WARNING: This substance has been classified by	the IARC as Group 2B: Possibly Ca	rcinogenic to Humans.
Peter G's Dishwashing Liquid Concentrate & SODIUM HYDROXIDE & (C10- 16)ALKYLBENZENESULFONIC ACID & 2-METHYL-4- ISOTHIAZOLIN-3-ONE & COCONUT DIETHANOLAMIDE & EUCALYPTUS OIL	Asthma-like symptoms may continue for months or condition known as reactive airways dysfunction sy compound. Main criteria for diagnosing RADS inclu onset of persistent asthma-like symptoms within mi RADS include a reversible airflow pattern on lung fu testing, and the lack of minimal lymphocytic inflamm infrequent disorder with rates related to the concen- industrial bronchitis is a disorder that occurs as a re- is completely reversible after exposure ceases. The	ndrome (RADS) which can occur aff de the absence of previous airways nutes to hours of a documented exp unction tests, moderate to severe br nation, without eosinophilia. RADS (tration of and duration of exposure t ssult of exposure due to high concer	ter exposure to high levels of highly irritating disease in a non-atopic individual, with sudden oosure to the irritant. Other criteria for diagnosis of onchial hyperreactivity on methacholine challenge or asthma) following an irritating inhalation is an o the irritating substance. On the other hand, htrations of irritating substance (often particles) and
Peter G's Dishwashing Liquid Concentrate & (C10- 16)ALKYLBENZENESULFONIC ACID	Linear alkyl benzene sulfonates are derived from st irritation, sluggishness, passage of frequent watery mouth and intestines, depending on the concentrati cancer.	stools, weakness and may lead to o	death. They may also react with surfaces of the
SODIUM HYDROXIDE & COCONUT DIETHANOLAMIDE	The material may produce severe irritation to the ey produce conjunctivitis.	e causing pronounced inflammatior	n. Repeated or prolonged exposure to irritants may
(C10- 16)ALKYLBENZENESULFONIC ACID & 2-METHYL-4- ISOTHIAZOLIN-3-ONE	The material may be irritating to the eye, with prolot produce conjunctivitis. The material may cause skin irritation after prolong production of vesicles, scaling and thickening of the	ed or repeated exposure and may p	
SODIUM LAURYL ETHER SULFATE & COCONUT DIETHANOLAMIDE	The material may produce moderate eye irritation le conjunctivitis.	eading to inflammation. Repeated 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	×

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egend: X – Data either not available of good .....

 Data available to make classification
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SECTION 12 Ecological information

	Endpoint	Test Duration (hr)	Species	Value	Source
Peter G's Dishwashing Liquid Concentrate	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	34.59- 47.13mg/l	4
sodium hydroxide	EC50(ECx)	48h	Crustacea	34.59- 47.13mg/l	4
	LC50	96h	Fish	144- 267mg/l	4
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	72h	Algae or other aquatic plants	>1000mg/l	2
C10-16)alkylbenzenesulfonic acid	EC50	48h	Crustacea	2.9mg/l	1
aciu	EC50(ECx)	48h	Crustacea	2.9mg/l	1
	EC50	96h	Algae or other aquatic plants	170mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	72h	Algae or other aquatic plants	0.057mg/L	2
	EC50	48h	Crustacea	0.189- 0.257mg/L	4
2-methyl-4-isothiazolin-3-one	LC50	96h	Fish	0.081- 0.122mg/L	4
	NOEC(ECx)	96h	Algae or other aquatic plants	0.01mg/l	2
	EC50	96h	Algae or other aquatic plants	0.061mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	72h	Algae or other aquatic plants	0.07mg/L	2
1,2-benzisothiazoline-3-one	EC50	48h	Crustacea	0.097mg/L	4
	LC50	96h	Fish	0.067- 0.29mg/L	4
	NOEC(ECx)	72h	Algae or other aquatic plants	0.04mg/L	2
sodium lauryl ether sulfate	Endpoint	Test Duration (hr)	Species	Value	Sourc
				2.43-	4

	NOEC(ECx)	48h	Fish	0.26mg/L	5
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	2.2mg/l	1
	EC50	48h	Crustacea	2.25mg/l	1
coconut diethanolamide	LC50	96h	Fish	2.52mg/l	1
	NOEC(ECx)	504h	Crustacea	0.07mg/l	1
	EC50	96h	Algae or other aquatic plants	2.2mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Sourc
				127.25-	
	EC50	48h	Crustacea	163.21mg/l	4
	EC50 EC50(ECx)	48h 48h	Crustacea		4
eucalyptus oil				163.21mg/l 127.25-	
eucalyptus oil	EC50(ECx)	48h	Crustacea	163.21mg/l 127.25- 163.21mg/l	4
eucalyptus oil	EC50(ECx) EC50	48h 72h	Crustacea Algae or other aquatic plants	163.21mg/l 127.25- 163.21mg/l >1.6mg/l	4
eucalyptus oil	EC50(ECx) EC50 EC50	48h 72h 48h	Crustacea Algae or other aquatic plants Crustacea	163.21mg/l 127.25- 163.21mg/l >1.6mg/l 0.307mg/l	4 2 2

Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Toxic to aquatic organisms.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium hydroxide	LOW	LOW
2-methyl-4-isothiazolin-3-one	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
sodium hydroxide	LOW (LogKOW = -3.8796)
2-methyl-4-isothiazolin-3-one	LOW (LogKOW = -0.8767)

Mobility in soil

Ingredient	Mobility
sodium hydroxide	LOW (Log KOC = 14.3)
2-methyl-4-isothiazolin-3-one	LOW (Log KOC = 27.88)

SECTION 13 Disposal considerations

	Containers may still present a chemical hazard/ danger when empty.
	Return to supplier for reuse/ recycling if possible.
	Otherwise:
	If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
	 Where possible retain label warnings and SDS and observe all notices pertaining to the product.
	Legislation addressing wate disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in
	Legislation addressing waste disposal requirements may direr by county, state and/ or termory. 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:
	Relative of Controls seems to be common - the user should investigate. Relative Structure Controls - the user should investigate.
	Recycling
	Disposal (if all else fails)
Product / Packaging disposal	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
Froduct / Fackaging disposal	contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also
	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 that 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.
	Known water in outper land the responsible address. Recycle wherever possible.
	 Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatmer
	or disposal facility can be identified.
	 Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed
	apparatus (after admixture with suitable combustible material).
	 Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

Labels Required

Marine Pollutant	NO
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

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

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

Product name	Group
sodium hydroxide	Not Available
(C10-16)alkylbenzenesulfonic acid	Not Available
2-methyl-4-isothiazolin-3-one	Not Available
1,2-benzisothiazoline-3-one	Not Available
sodium lauryl ether sulfate	Not Available
coconut diethanolamide	Not Available
eucalyptus oil	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
sodium hydroxide	Not Available
(C10-16)alkylbenzenesulfonic acid	Not Available
2-methyl-4-isothiazolin-3-one	Not Available
1,2-benzisothiazoline-3-one	Not Available
sodium lauryl ether sulfate	Not Available
coconut diethanolamide	Not Available
eucalyptus oil	Not Available

SECTION 15 Regulatory information

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

sodium hydroxide is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 10 / Appendix C
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5
Australian Inventory of Industrial Chemicals (AIIC)

(C10-16)alkylbenzenesulfonic acid is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

2-methyl-4-isothiazolin-3-one is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6 Australian Inventory of Industrial Chemicals (AIIC)

1,2-benzisothiazoline-3-one is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

sodium lauryl ether sulfate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

coconut diethanolamide is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International Agency fsor Research on Cancer (IARC) - Agents Classified by the IARC Monographs

eucalyptus oil is found on the following regulatory lists

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6 Australian Inventory of Industrial Chemicals (AIIC)

Additional Regulatory Information

Not Applicable

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non- Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (sodium hydroxide; (C10-16)alkylbenzenesulfonic acid; 2-methyl-4-isothiazolin-3-one; 1,2-benzisothiazoline-3-one; sodium lauryl ether sulfate; coconut diethanolamide; eucalyptus oil)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	No ((C10-16)alkylbenzenesulfonic acid; eucalyptus oil)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No ((C10-16)alkylbenzenesulfonic acid; sodium lauryl ether sulfate; eucalyptus oil)	
Vietnam - NCI	Yes	
Russia - FBEPH	No ((C10-16)alkylbenzenesulfonic acid)	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

SECTION 16 Other information

Revision Date	29/08/2024
Initial Date	29/08/2024

Other information

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

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

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