

Essity Australasia

Chemwatch: 5584-33 Version No: 4.1 Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements Chemwatch Hazard Alert Code: 4

Issue Date: 17/02/2023 Print Date: 20/02/2023 S.GHS.AUS.EN

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

Product Identifier

Product name	Tork Premium Air Freshener Mixed A1
Chemical Name	Not Applicable
Synonyms	Product Code: 236056
Proper shipping name	AEROSOLS
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	Air freshener.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Essity Australasia
Address	30-32 Westall Road SPRINGVALE VIC 3171 Australia
Telephone	(03) 9550 2999
Fax	1800 630 234
Website	http://www.tork.com.au/
Email	customerservice.anz@essity.com

Emergency telephone number

Association / Organisation	Essity Australasia	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	1800 643 634	+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

Poisons Schedule	Not Applicable
Classification [1]	Aerosols Category 1, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Hazardous to the Aquatic Environment Long-Term Hazard Category 2
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)	

Signal word Danger

Hazard statement(s)

AUH044	Risk of explosion if heated under confinement.
H222+H229	Extremely flammable aerosol. Pressurized container: may burst if heated.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s) Prevention

· · · · · · · · · · · · · · · · · · ·		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P211	Do not spray on an open flame or other ignition source.	
P251	Do not pierce or burn, even after use.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P261	Avoid breathing mist/vapours/spray.	
P273	Avoid release to the environment.	
P264	Wash all exposed external body areas thoroughly after handling.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

Precautionary statement(s) Response

P302+P352	IF ON SKIN: Wash with plenty of water.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P391	Collect spillage.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	

Precautionary statement(s) Storage

P405	Store locked up.	
P410+P412	2 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

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
64-17-5	10-20	ethanol
67-63-0	1-10	isopropanol
5392-40-5	1-10	citral
5989-27-5	1-10	d-limonene
Legend:	1. Classified by Chemwatch; 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 aerosols come in contact with the eyes: Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. 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 solids or aerosol mists are deposited upon the skin: Flush skin and hair with running water (and soap if available). Remove any adhering solids with industrial skin cleansing cream. DO NOT use solvents. Seek medical attention in the event of irritation.
Inhalation	 If aerosols, fumes or combustion products are inhaled: Remove to fresh air. 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. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.

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Ingestion Not considered a normal route of entry.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

- For acute or short term repeated exposures to ethanol:
- Acute ingestion in non-tolerant patients usually responds to supportive care with special attention to prevention of aspiration, replacement of fluid and correction of nutritional deficiencies (magnesium, thiamine pyridoxine, Vitamins C and K).
- + Give 50% dextrose (50-100 ml) IV to obtunded patients following blood draw for glucose determination.
- Comatose patients should be treated with initial attention to airway, breathing, circulation and drugs of immediate importance (glucose, thiamine).
- Decontamination is probably unnecessary more than 1 hour after a single observed ingestion. Cathartics and charcoal may be given but are probably not effective in single ingestions.
- Fructose administration is contra-indicated due to side effects.

SECTION 5 Firefighting measures

Extinguishing media

- Alcohol stable foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
 Water spray or fog Large fires only.
- SMALL FIRE:
- Water spray, dry chemical or CO2

LARGE FIRE:

Water spray or fog.

Special hazards arising from the substrate or mixture

Special hazards arising from the substrate or mixture				
Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result			
Advice for firefighters				
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent 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. 			
Fire/Explosion Hazard	 Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Severe explosion hazard, in the form of vapour, when exposed to flame or spark. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition with violent container rupture. Aerosol cans may explode on exposure to naked flames. Rupturing containers may rocket and scatter burning materials. Hazards may not be restricted to pressure effects. May emit acrid, poisonous or corrosive fumes. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) other pyrolysis products typical of burning organic material. 			
HAZCHEM	Not Applicable			

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Environmental hazard - contain spillage. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Wear protective clothing, impervious gloves and safety glasses. Shut off all possible sources of ignition and increase ventilation. Wipe up. If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated. Undamaged cans should be gathered and stowed safely.
Major Spills	 Environmental hazard - contain spillage. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves.

Prevent, by any means available, spillage from entering drains or water courses
No smoking, naked lights or ignition sources.
► Increase ventilation.
Stop leak if safe to do so.
Water spray or fog may be used to disperse / absorb vapour.
Absorb or cover spill with sand, earth, inert materials or vermiculite.
If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until pressure has dissipated.
Undamaged cans should be gathered and stowed safely.
Collect residues and seal in labelled drums for disposal.

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

SECTION 7 Handling and storage

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. DO NOT spray directly on humans, exposed food or food utensils. 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.
Other information	 Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. Store in original containers in approved flammable liquid storage area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Keep containers securely sealed. Contents under pressure. Store away from incompatible materials. Store in a cool, dry, well ventilated area. Avoid storage at temperatures higher than 40 deg C. Store in an upright position. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	Aerosol dispenser. Check that containers are clearly labelled.
Storage incompatibility	Avoid oxidising agents, acids, acid chlorides, acid anhydrides, chloroformates.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Notes:

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	ethanol	Ethyl alcohol	1000 ppm / 1880 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	isopropanol	Isopropyl alcohol	400 ppm / 983 mg/m3	1230 mg/m3 / 500 ppm	Not Available	Not Available

Emergency Limits					
Ingredient	TEEL-1	TEEL-2		TEEL-3	
ethanol	Not Available	Not Available		15000* ppm	
isopropanol	400 ppm 2000* ppm			12000** ppm	
d-limonene	15 ppm	67 ppm		170 ppm	
Ingredient	Original IDLH		Revised IDLH		
ethanol	3,300 ppm		Not Available		
isopropanol	2,000 ppm		Not Available		
citral	Not Available		Not Available		
d-limonene	Not Available		Not Available		
Occupational Exposure Banding					
Ingredient	Occupational Exposure Band Rating		Occupational Exposu	ure Band Limit	

Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

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

Exposure controls

Exposure controls				
Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed property. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. General exhaust is adequate under normal conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant. Type of Contaminant: Speed: aerosols, (released at low velocity into zone of active generation) 0.5-1 m/s direct spray, spray painting in shallow booths, gas discharge (active generation into zone of rapid air motion) 1-2.5 m/s (200-500 f/min.) Within each range the appropriate val			
	1-2 m/s (200-400 f/min.) for extraction of solvents generated considerations, producing performance deficits within the ext	•		
	factors of 10 or more when extraction systems are installed of	or used.		
Individual protection measures, such as personal protective equipment				
Eye and face protection	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] Close fitting gas tight goggles 			
Skin protection	See Hand protection below			
Hands/feet protection	 NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. No special equipment needed when handling small quantities. OTHERWISE: For potentially moderate exposures: Wear general protective gloves, eg. PVC. and safety footwear. 			
Body protection	See Other protection below			
Other protection	No special equipment needed when handling small quantities. OTHERWISE: Voveralls. Skin cleansing cream. Eyewash unit. Do not spray on hot surfaces.			

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*-

Respiratory protection

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

Where the concentration of gas/particulates in the breathing zone, approaches or

generated selection:

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Material	CPI
NITRILE	A
BUTYL	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NITRILE+PVC	C
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

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.

exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	Air-line*	A-2 P2	A-PAPR-2 P2 ^
up to 20 x ES	-	A-3 P2	-
20+ x ES	-	Air-line**	-

* - Continuous-flow; ** - Continuous-flow or positive pressure demand ^ - Full-face

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

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

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Colourless to pale yellow highly flammable liquid with characteristic odour.		
Physical state	Liquid	Relative density (Water = 1)	0.619-0.645
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	19	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1.8	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	350-450	Gas group	Not Available
Solubility in water	Not Available	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	Elevated temperatures. Presence of open flame. 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

Information on toxicological effects

inormation on toxicological e	ileois		
Inhaled	There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. WARNING:Intentional misuse by concentrating/inhaling contents may be lethal.		
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual. Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments		
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. Spray mist may produce discomfort Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	This material can cause eye irritation and damage in some pe	prsons.	
Chronic	 Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Prolonged exposure to ethanol may cause damage to the liver and cause scarring. It may also worsen damage caused by other agents. Main route of exposure to the gas in the workplace is by inhalation. Exposure to Aliphatic aldehydes can cause irritation of the skin. A number of common flavor and fragrance chemicals can form peroxides surprisingly fast in air. Antioxidants can in most cases minimize the oxidation. Fragrance terpenes are easily oxidized in air. Non-oxidised forms are very weak sensitizers; however, after oxidation, the hyproperoxides are strong sensitisers which may cause allergic reactions. Autooxidation of fragrance terpenes contributes greatly to fragrance allergy. There is the need to test for compounds the patients are actually exposed to, not only the ingredients originally applied in commercial formulations. d-Limonene may cause damage to and growths in the kidney. These growths can progress to cancer. Peroxidisable terpenes and terpenoids should only be used when the level of peroxides is kept to the lowest practicable level, for instance by adding antioxidants at the time of production. This should be less than 10 millimoles of peroxide per litre. This is because peroxides may have sensitizing properties. Long term, or repeated exposure of isopropanol may cause inco-ordination and tiredness. Repeated inhalation exposure levels that produce toxic effects in adult animals. Isopropanol does not cause genetic damage. There are inconclusive reports of human sensitisation from skin contacts with isopropanol. Chronic alcoholics are more tolerant of the whole-body effects of isopropanol. Animal testing showed the chronic		
	Long term, or repeated exposure of isopropanol may cause in Repeated inhalation exposure to isopropanol may produce sli- effects only at exposure levels that produce toxic effects in ac There are inconclusive reports of human sensitisation from sl- effects of isopropanol. Animal testing showed the chronic exposure did not produce NOTE: Commercial isopropanol does not contain "isopropyl of production workers in the past. "Isopropyl oil" is no longer form	eepiness, inco-ordination and liver degeneration. Animal data show developmental lult animals. Isopropanol does not cause genetic damage. in contacts with isopropanol. Chronic alcoholics are more tolerant of the whole-body reproductive effects. il", which caused an excess incidence of sinus and throat cancers in isoproanol ned during production of isopropanol.	
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Tork Premium Air Freshener Mixed A1	Long term, or repeated exposure of isopropanol may cause in Repeated inhalation exposure to isopropanol may produce sli- effects only at exposure levels that produce toxic effects in ac There are inconclusive reports of human sensitisation from sl- effects of isopropanol. Animal testing showed the chronic exposure did not produce NOTE: Commercial isopropanol does not contain "isopropyl of production workers in the past. "Isopropyl oil" is no longer form	eepiness, inco-ordination and liver degeneration. Animal data show developmental lult animals. Isopropanol does not cause genetic damage. in contacts with isopropanol. Chronic alcoholics are more tolerant of the whole-body reproductive effects. il", which caused an excess incidence of sinus and throat cancers in isoproanol ned during production of isopropanol.	
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	TOYICITY		
		IRRITATION	
d-limonene	Dermal (rabbit) LD50: >5000 mg/kg ^[2] Oral (Rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 500mg/24h moderate	
		Skin: no adverse effect observed (not irritating) ^[1]	
Legend:	 Value obtained from Europe ECHA Registered Substance specified data extracted from RTECS - Register of Toxic Effe 	s - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise act of chemical Substances	
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.		
		eciduous plants. This category of chemicals shows very low acute toxicity. They are age, but animal testing shows that they do cause increased rates of kidney cancer. nental toxicity.	
CITRAL	No significant acute toxicological data identified in literature se Epoxidation of double bonds is a common bioactivation paths has shown that conjugated dienes in or in conjunction with a bonds or an acrylic conjugated diene were weak or non-sens for citral Citral is rapidly absorbed from the gastrointestinal tract. Much remaining on the skin was fairly well absorbed. Citral is rapid Acute toxicity of this chemical is low in rodents because the to skin and not irritating to eyes in rabbits. There is some evit Repeat dose toxicity : Several repeated dose oral studies sh histological changes in the nasal cavity or forestomach, the fi and female F344/N rats received microencapsulated citral in 570, 1,140 and 2,280 mg/kg/day) for 14 days. Minimal to mito observed in nasal cavity without inflammatory response at 1, mg/kg/day. In an OECD preliminary reproduction toxicity scree of 0,40,200 and 1,000 mg/kg/day in males for 46 days and i and until day 3 of lactation. Squamous hyperplasia, ulcer and of both sexes. Therefore, the NOAEL for repeated dose toxic Developmental toxicity : in the above preliminary reproduct histopathology of the reproductive organs of both sexes, and were reduced in the 1000 mg/kg group. Therefore, an oral NK In a teratogenicity study, SD pregnant rats were exposed to co or 34 ppm as vapour, or 68 ppm As an aerosol/vapour mixtur noted at 68 ppm. An inhalation NOAEL of teratogenicity was Genotoxicity : Seven bacterial reverse mutation studies indic vitro study, two chromosomal aberration results in Chinese h given in the same cells. Additionally, two in vivo micronucleus genotoxic potential of citral can be considered to be negative Carcinogenicity : A NTP study shows that there was no evid of malignant lymphoma in female mice (up to 4,000 ppm in fe Dermal application of citral induces prostate hyperplasia with studies in rats and mice found no evidence of lesions (neople health significance of the effects seen in the dermal studies in primarily been performed in a single laboratory. The	search. way for alkenes. The allylic epoxides formed were found to be sensitizing. Research six-membered ring are prohaptens, while related dienes containing isolated double itising. h of an applied dermal dose is lost due to its extreme volatility, but the citral Ily metabolised and excreted as metabolites. Urine is the major route of elimination. e oral or dermal LDSO values were more than 1000 mg/kg/day exposure and some irst exposure sites, probably due to irritation, at more than 1.000 mg/kg/day. Male feed at concentrations of 0, 0.63, 1.25, 2.5, 5 and 10% (resultant doses: 0, 142, 285, d hyperplasia and/or squamous metaplasia of the respiratory epithelium was 140 and 2,280 mg/kg/day of both sexes. The NOAEL was established at 570 enring test [TG 421], citral was administered to Cri;CD (SD) rats by gavage at doses in females for 39-50 days including before and through mating and gestation periods d granulation in lamina propria were observed in the forestomach at 1,000 mg/kg/day ity was 200 mg/kg/day for both sexes. ve study, no effects were detected in reproductive ability, organ weights or delivery or maternal behavior. However, body weights of male and female pups OAEL for developmental toxicity was 200 mg/kg/day. citral by inhalation for 6 hr/day on gestation days 6-15 at mean concentration of 0, 10 re. Even in the presence of the maternal effects, no significant teratogenicity was established at 68 pm (423 mg/m3). cate negative results with and without metabolic activation. As for non-bacterial in amster cells are negative however one positive result in sister chromatid exchange is s tests in rodents indicate negative results. Based on the above information, the s. I ow severity only in some strains of rats. However, the NTP oral carcinogenicity astic or non-neoplastic) in any male reproductive organ, including the prostate. The n rats is uncertain due to dramatic strain differences and it is noted that the work has a repeated exposure and may produce on contact skin rednes	

	Oxygen Species in Human Bronchial Epithelial Cells Louis W. Chang Wai-Sze Lo Pinpin Lin Toxicological Sciences, Volume 87, Issue 2, 1 October 2005, Pages 337–343, http://doi.org/10.1093/toxsci/kfi258 2,4-Decadienal is produced by the oxidation of linoleic acid. 2,4-Decadienal is found as a contaminant in water. It is generated from polyunsaturated fatty acids by the action of plant lipoxygenases and is produced in mammalian tissues in certain physiological and pathophysiological processes such as lipid peroxidation, arachidonic acid oxidation, and reactions with reactive oxygen species A member or analogue of a group of aliphatic, linear alpha,beta-unsaturated aldehydes and structurally related substances These substances are generally regarded as safe. They are found in flavouring substances in food and are rapidly absorbed and broken down in the body. - Produces maternal effects (oogenesis, ovaries, fallopian tube changes) and effects live-birth index.
D-LIMONENE	 The square transmission is not to be strate to strate the square to be strate to the top the number of the strate to the square to to th

	The effects of MMT(IOTG) were evaluated in a 90-day dietary study using doses of 100, 500, and 1500 ppm (decreased from 2500 ppm) in the diet. Based on clinical chemistry effects at 500 ppm and other effects at higher doses, the NOAEL was 100 ppm in diet (approximately 6-21 mg/kg bw/d2). Neurotoxidity: In a guideline 90-day subchronic dietary study conducted in Wistar rats, effects occurred at the high dose of 750 ppm MMT(2-EHMA, (equivalent to 4.9.7 mg/kg bw/day in males and 5.8.6 mg/kg bw/day in males and 5.8.6 mg/kg bw/day in males and 5.8.6 mg/kg bw/day in famales), which consisted of changes in neurobehavioral parameters and associated brain histopathology. The NOAEL was the next lower dose of 150 ppm (equivalent to 9.8 mg/kg bw/day in males and 10.2 mg/kg bw/day in famales). The NOAEL was the next lower dose of 150 ppm (equivalent to 9.8 mg/kg bw/day in males and 10.2 mg/kg bw/day in famales). The NOAEL was the next lower group of dibutyfith dichloride (DBTC), dimethytithin dichloride (MBT), and monomethytith trichloride (MBT), in a 2.2:1:1 ratio, respectively, at 3 different concentrations (5:5:2:5.5; or 20:2:0:10:10 mg organotinc). Rats were also exposed to MMT alone. The data suggest that immunotoxicity is unlikely to result from the concentration of organotins present in drinking water delivered via PVC pipes, as the concentrations used were several orders of magnitude higher than those expected to leach from PVC pipes. Genotoxicity: In a guideline 90-day subchronic dietary study in rats, with MMT(2-EHMA), based on the changes in neurobehavioral parameters and associated brain histopathology that occurred at the high dose of 750 ppm (equivalent to 4.9.7 mg/kg bw/day in females), as well as changes in haematology, clinical chemistry, urinalysis, organ weights, and pathology of the trymus at the same dose, the NOAEL was the next tower dose of 150 ppm (equivalent to 4.9.7 mg/kg bw/day in males and 5.3.6 mg/kg bw/day in females). The monomethytith incloride delivation in that MTC does not have genotixic p
ETHANOL & ISOPROPANOL	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.
ISOPROPANOL & CITRAL	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.
ISOPROPANOL & D-LIMONENE	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.
CITRAL & D-LIMONENE	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 urticaria, involve antibody-mediated immune reactions. The significance of the contact allergies in and simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger resinsiting potential with which five windividuals come 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, curst. 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 unvellness, couphing, 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 in a

	found between respiratory complaints related to fragr Fragrance allergens act as haptens, which are small not all sensitizing fragrance chemicals are directly rea or no sensitization, but it is transformed into a hapten requirement of an enzyme. For prehaptens, it is possible to prevent activation ou	f allergic reactions mediated by light a grances have caused phototoxic reacti actions still occur, but are rare. refore, in addition to skin exposure, a p ected by respiratory or eye symptoms is man-like symptoms can be provoked b ances and contact allergy to fragrance molecules that cause an immune reac- active, but some require previous activ outside the skin by a chemical reaction tside the body to a certain extent by di- nts and the final product, and by the ar- ated themselves, and thereby form new titons can be expected to self-oxidise of ucts will have differing levels of sensiti skin and thereby form haptens are refe- ating and deactivating prohaptens. Ski of xenobiotic bioactivation reactions, cl	ons, with redness. There are now limits for the berfume also exposes the eyes and the nose / airway. by such an exposure. It is known that exposure to y sensory mechanisms. A significant association was ingredients and hand eczema. tion only when attached to a carrier protein. However, ation. A prehapten is a chemical that itself causes little in (oxidation in air or reaction with light) without the fferent measures, for example, prevention of air ddition of suitable antioxidants. When antioxidants are v sensitisers. on air exposure. Depending on the stability of the zation potential. Tests shows that air exposure of erred to prohaptens. The possibility of a prohapten risk for cross-reactivity between fragrance n-sensitizing prohaptens can be recognized and inical observations and/or studies of sensitization.
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	*	STOT - Single Exposure	×
Respiratory or Skin sensitisation	*	STOT - Repeated Exposure	×

×

Data available to make classification

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

Aspiration Hazard

Legend:

SECTION 12 Ecological information

Mutagenicity

X

	Endpoint	Test Duration (hr)	Species	1	/alue	Source
Tork Premium Air Freshener Mixed A1	Not Available	Not Available	Not Available		lot Available	Not Availabl
	Endpoint	Test Duration (hr)	Species	Vá	alue	Sourc
	EC50(ECx)	96h	Algae or other aquatic plants	<(.001mg/L	4
	EC50	72h	Algae or other aquatic plants	Algae or other aquatic plants 275mg/l		2
ethanol	LC50	96h	Fish	42	tmg/l	4
	EC50	96h	Algae or other aquatic plants	<(0.001mg/L	4
	EC50	48h	Crustacea	2r	ng/l	4
	Endpoint	Test Duration (hr)	Species	Ň	/alue	Sourc
	EC50(ECx)	24h	Algae or other aquatic plants	().011mg/L	4
	LC50	96h	Fish	>1400mg/l		4
isopropanol	EC50	72h	Algae or other aquatic plants	>	1000mg/l	1
	EC50	96h	Algae or other aquatic plants	>	1000mg/l	1
	EC50	48h	Crustacea	Crustacea 7550mg/l		4
	Endpoint	Test Duration (hr)	Species		Value	Sourc
	EC10(ECx)	96h	Algae or other aquatic plants	Algae or other aquatic plants 1.9mg		1
- 10-1	EC50	72h	Algae or other aquatic plants 16mg/l		16mg/l	1
citral	EC50	96h	Algae or other aquatic plants	Algae or other aquatic plants 19mg		1
	LC50	96h	Fish		4.6mg/l	1
	EC50	48h	Crustacea		6.8mg/l	2
	Endpoint	Test Duration (hr)	Species	Valu	ie	Source
	NOEC(ECx)	0h	Algae or other aquatic plants	<0.05-1.5mg/l		4
d-limonene	EC50	72h	Algae or other aquatic plants	other aquatic plants 0.214mg/l		2
	LC50	96h	Fish	0.46	img/l	2
	EC50	48h	Crustacea	0.30	7mg/l	2

Toxic 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	
ethanol	LOW (Half-life = 2.17 days)	LOW (Half-life = 5.08 days)	
isopropanol	LOW (Half-life = 14 days)	LOW (Half-life = 3 days)	
citral	LOW	LOW	
d-limonene	HIGH	HIGH	

Bioaccumulative potential

Ingredient	Bioaccumulation
ethanol	LOW (LogKOW = -0.31)
isopropanol	LOW (LogKOW = 0.05)
citral	LOW (LogKOW = 3.4453)
d-limonene	HIGH (LogKOW = 4.8275)

Mobility in soil

Ingredient	Mobility
ethanol	HIGH (KOC = 1)
isopropanol	HIGH (KOC = 1.06)
citral	LOW (KOC = 147.7)
d-limonene	LOW (KOC = 1324)

SECTION 13 Disposal considerations

Waste treatment methods

waste treatment methous	
Product / Packaging disposal	 DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Consult State Land Waste Management Authority for disposal. Discharge contents of damaged aerosol cans at an approved site. Allow small quantities to evaporate. DO NOT incinerate or puncture aerosol cans. Bury residues and emptied aerosol cans at an approved site.

SECTION 14 Transport information

Labels Required			
Marine Pollutant			
HAZCHEM	Not Applicable		
Land transport (ADG)			
UN number or ID number	1950		
UN proper shipping name	AEROSOLS		
Transport hazard class(es)	Class 2.1 Subrisk Not Applicable		
Packing group	Not Applicable		
Environmental hazard	Environmentally hazardous		
Special precautions for user	Special provisions63 190 277 327 344 381Limited quantity1000ml		

Air transport (ICAO-IATA / DGR)

UN number 1950

UN proper shipping name	Aerosols, flammable			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	2.1 Not Applicable 10L		
Packing group	Not Applicable			
Environmental hazard	Environmentally hazardous			
Special precautions for user	Environmentally hazardous Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions Passenger and Cargo Limited Maximum Qty / Pack		A145 A167 A802 203 150 kg 203 75 kg Y203 30 kg G	

Sea transport (IMDG-Code / GGVSee)

UN number	1950		
UN proper shipping name	AEROSOLS		
Transport hazard class(es)	IMDG Class 2.1 IMDG Subrisk Not	t Applicable	
Packing group	Not Applicable		
Environmental hazard	Marine Pollutant		
Special precautions for user	EMS Number Special provisions Limited Quantities	F-D, S-U 63 190 277 327 344 381 959 1000 ml	

Not Applicable

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

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code Product name Group ethanol Not Available isopropanol Not Available citral Not Available d-limonene Not Available

Transport in bulk in accordance with the IGC Code

Product name	Ship Type
ethanol	Not Available
isopropanol	Not Available
citral	Not Available
d-limonene	Not Available

SECTION 15 Regulatory information

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

ethanol is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australian Inventory of Industrial Chemicals (AIIC)
isopropanol is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic
citral is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australian Inventory of Industrial Chemicals (AIIC)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5	
d-limonene is found on the following regulatory lists	
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (ethanol; isopropanol; citral; d-limonene)	
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	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	Yes	
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	17/02/2023
Initial Date	21/12/2022

SDS Version Summary

Version	Date of Update	Sections Updated
3.1	15/02/2023	Hazards identification - Classification, Identification of the substance / mixture and of the company / undertaking - Synonyms
4.1	17/02/2023	Hazards identification - Classification, Identification of the substance / mixture and of the company / undertaking - Synonyms

Other information

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

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

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value I OD. Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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