

Tork Toilet Seat Cleaner

Essity Australasia

Chemwatch: 5584-34 Version No: 2.1

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: **22/12/2022**Print Date: **03/01/2023**S.GHS.AUS.EN

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

Product Identifier

Product name	Tork Toilet Seat Cleaner
Chemical Name	Not Applicable
Synonyms	Not Available
Proper shipping name	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
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 Cleaning material / detergent.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Essity Australasia	Essity Australasia
Address	30-32 Westall Road SPRINGVALE VIC 3171 Australia	Level 2, 103 Carlton Gore Road Newmarket Auckland 1023 New Zealand
Telephone	(03) 9550 2999	0800 523 565
Fax	Fax 1800 630 234 Not Available	
Website http://www.tork.com.au/ http://www.tork.co.nz/		http://www.tork.co.nz/
Email	Email customerservice.anz@essity.com customerservice.anz@essity.com	

Emergency telephone number

Association / Organisation	Essity Australasia	Essity Australasia	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	1800 643 634	0800 523 565	+61 1800 951 288
Other emergency telephone numbers	Not Available	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]	Flammable Liquids Category 3, Serious Eye Damage/Eye Irritation Category 2A	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Label elements

Hazard pictogram(s)





Signal word

Warning

Hazard statement(s)

nazaru statement(s)		
	H226	Flammable liquid and vapour.
	H319	Causes serious eye irritation.

Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.

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P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.

Precautionary statement(s) Response

P370+P378	In case of fire: Use alcohol resistant foam or fine spray/water fog to extinguish.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	

Precautionary statement(s) Storage

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

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	10-30	ethanol
67-63-0	1-5	isopropanol
Not Available	balance	Ingredients determined not to be hazardous
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 measures

rescription of first and measures		
Eye Contact	If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.	
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.	
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay. 	
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. 	

Indication of any immediate medical attention and special treatment needed

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

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

Special hazards arising from the substrate or mixture

operating the state of the stat			
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. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. 		
Fire/Explosion Hazard	 Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Moderate explosion hazard when exposed to heat or flame. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. 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. 		

SECTION 6 Accidental release measures

HAZCHEM

Personal precautions, protective equipment and emergency procedures

•2Y

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

methous and material for containment and cleaning up		
Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb small quantities with vermiculite or other absorbent material. Wipe up. Collect residues in a flammable waste container. 	
Major Spills	 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 course. Consider evacuation (or protect in place). 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. Contain spill with sand, earth or vermiculite. Use only spark-free shovels and explosion proof equipment. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services. 	

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

SECTION 7 Handling and storage

Precautions for safe handling

▶ Containers, even those that have been emptied, may contain explosive vapours.

- ▶ Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- Avoid all personal contact, including inhalation.
- ▶ Wear protective clothing when risk of overexposure occurs.
- Safe handling | Us
 - 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.

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- Avoid generation of static electricity.
- DO NOT use plastic buckets
- ► Earth all lines and equipment.
- Use spark-free tools when handling.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Use good occupational work practice.
- Deserve manufacturer's storage and handling recommendations contained within this SDS.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.
- ▶ Store in original containers in approved flammable liquid storage area.
- Store away from incompatible materials in a cool, dry, well-ventilated area.
- ▶ DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
- ▶ No smoking, naked lights, heat or ignition sources.
- Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised personnel -adequate security must be provided so that unauthorised personnel do not have access.
- Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities and minimum storage distances.
- Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems.
- Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers dry chemical, foam or carbon dioxide) and flammable gas detectors.
- Keep adsorbents for leaks and spills readily available.
- Protect containers against physical damage and check regularly for leaks.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.

In addition, for tank storages (where appropriate):

- ▶ Store in grounded, properly designed and approved vessels and away from incompatible materials.
- For bulk storages, consider use of floating roof or nitrogen blanketed vessels; where venting to atmosphere is possible, equip storage tank vents with flame arrestors; inspect tank vents during winter conditions for vapour/ ice build-up.
- Storage tanks should be above ground and diked to hold entire contents.

Conditions for safe storage, including any incompatibilities

Other information

- Packing as supplied by manufacturer.
- Plastic containers may only be used if approved for flammable liquid.
- Check that containers are clearly labelled and free from leaks
- For low viscosity materials (i): Drums and jerry cans must be of the non-removable head type. (ii): Where a can is to be used as an inner package, the can must have a screwed enclosure.
- For materials with a viscosity of at least 2680 cSt. (23 deg. C)
- For manufactured product having a viscosity of at least 250 cSt. (23 deg. C)
- Manufactured product that requires stirring before use and having a viscosity of at least 20 cSt (25 deg. C): (i) Removable head packaging;
 (ii) Cans with friction closures and (iii) low pressure tubes and cartridges may be used.
- Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages
- In addition, where inner packagings are glass and contain liquids of packing group I there must be sufficient inert absorbent to absorb any spillage, unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.

Storage incompatibility

Suitable container

- Avoid oxidising agents, acids, acid chlorides, acid anhydrides, chloroformates.
- 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	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

Ingredient	Original IDLH	Revised IDLH
ethanol	3,300 ppm	Not Available
isopropanol	2,000 ppm	Not Available

Exposure 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.

Appropriate engineering controls

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

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Employees exposed to confirmed human carcinogens should be authorized to do so by the employer, and work in a regulated area.

- Work should be undertaken in an isolated system such as a "glove-box" . Employees should wash their hands and arms upon completion of the assigned task and before engaging in other activities not associated with the isolated system.
- Within regulated areas, the carcinogen should be stored in sealed containers, or enclosed in a closed system, including piping systems, with any sample ports or openings closed while the carcinogens are contained within.
- Open-vessel systems are prohibited
- Each operation should be provided with continuous local exhaust ventilation so that air movement is always from ordinary work areas to the operation.
- Exhaust air should not be discharged to regulated areas, non-regulated areas or the external environment unless decontaminated. Clean make-up air should be introduced in sufficient volume to maintain correct operation of the local exhaust system
- For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood. Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.
- Except for outdoor systems, regulated areas should be maintained under negative pressure (with respect to non-regulated areas).
- Local exhaust ventilation requires make-up air be supplied in equal volumes to replaced air.
- Laboratory hoods must be designed and maintained so as to draw air inward at an average linear face velocity of 0.76 m/sec with a minimum of 0.64 m/sec. Design and construction of the fume hood requires that insertion of any portion of the employees body, other than hands and arms, be disallowed.

Personal protection











Eye and face protection

► Safety glasses with side shields

Chemical goggles.

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

Skin protection

See Hand protection below

Hands/feet protection

- Wear chemical protective gloves, e.g. PVC.
- Wear safety footwear or safety gumboots, e.g. Rubber

Body protection

See Other protection below

- Overalls.
- PVC Apron.
- PVC protective suit may be required if exposure severe.
- Evewash unit.
- Ensure there is ready access to a safety shower.

Other protection

- electricity. For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).
- Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear should not wear them from their place of work to their homes and return.

Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static

Recommended material(s)

GLOVE SELECTION INDEX

Respiratory protection

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

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

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

^{* -} Continuous-flow; ** - Continuous-flow or positive pressure demand

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)

^{^ -} Full-face

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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 $\emph{computer-}$ generated selection:

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Material	СРІ
NEOPRENE	A
NITRILE	A
NITRILE+PVC	A
PE/EVAL/PE	A
PVC	В
BUTYL	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С

^{*} CPI - Chemwatch Performance Index

A: Best Selection

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Colourless flammable liquid gel with alcoholic odour; mixes with water.		
Physical state	Gel	Relative density (Water = 1)	0.955
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	6.5 @20C	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)	28	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

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

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled

Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of

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B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

^{*} 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.

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	co-ordination, and vertigo. Inhalation of vapours or aerosols (mists, fumes), genera of the individual. Inhalation of high concentrations of gas/vapour causes I dizziness, slowing of reflexes, fatigue and inco-ordinatio There is some evidence to suggest that the material car cause further lung damage.	ung irritation with coughing and naus n.	ea, central nervous depression with headache and
Ingestion	Accidental ingestion of the material may be damaging to	the health of the individual.	
Skin Contact	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. 511ipa There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.		
Eye	There is evidence that material may produce eye irritation inflammation may be expected with pain.	on in some persons and produce eye	damage 24 hours or more after instillation. Severe
Chronic	Substance accumulation, in the human body, may occur Prolonged exposure to ethanol may cause damage to the Long term, or repeated exposure of isopropanol may cause damage to the Long term, or repeated exposure to isopropanol may product offects only at exposure levels that produce toxic effects. There are inconclusive reports of human sensitisation for effects of isopropanol. Animal testing showed the chronic exposure did not pronounce. Commercial isopropanol does not contain "isoproproduction workers in the past." Isopropyl oil" is no long.	ne liver and cause scarring. It may als use inco-ordination and tiredness. use sleepiness, inco-ordination and liver in adult animals. Isopropanol does no om skin contacts with isopropanol. Cluduce reproductive effects. opyl oil", which caused an excess inco	worsen damage caused by other agents. ver degeneration. Animal data show developmental of cause genetic damage. nronic alcoholics are more tolerant of the whole-body deduce of sinus and throat cancers in isoproanol
Tork Toilet Seat Cleaner	TOXICITY Not Available	IRRITATION Not Available	
		·	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 17100 mg/kgl ¹]	Eye (rabbit): 500 ı	ng SEVERE
	Inhalation(Rat) LC50: 64000 ppm4h ^[2] Eye (rabbit):100mg/24hr-moderate		g/24hr-moderate
ethanol	Oral (Rat) LD50; 7060 mg/kg ^[2] Eye: adverse effect observed (irritating) ^[1]		ct observed (irritating) ^[1]
		Skin (rabbit):20 m	g/24hr-moderate
	Skin (rabbit):400 mg (open)-mild		ng (open)-mild
	Skin: no adverse effect observed (not irritating) ^[1]		effect observed (not irritating) ^[1]
	TOXICITY	IRRITATION	
	TOXICITY Dermal (rabbit) LD50: 12800 mg/kg ^[2]	IRRITATION Eye (rabbit): 10 m	g - moderate
isopropanol			
isopropanol	Dermal (rabbit) LD50: 12800 mg/kg ^[2]	Eye (rabbit): 10 m	ng - SEVERE
isopropanol	Dermal (rabbit) LD50: 12800 mg/kg ^[2] Inhalation(Mouse) LC50; 53 mg/L4h ^[2]	Eye (rabbit): 10 m	ng - SEVERE
isopropanol Legend:	Dermal (rabbit) LD50: 12800 mg/kg ^[2] Inhalation(Mouse) LC50; 53 mg/L4h ^[2] Oral (Mouse) LD50; 3600 mg/kg ^[2] 1. Value obtained from Europe ECHA Registered Subst	Eye (rabbit): 10 m Eye (rabbit): 100 n Eye (rabbit): 100 n Skin (rabbit): 500 ances - Acute toxicity 2. Value obtain	ng - SEVERE ng/24hr-moderate mg - mild
	Dermal (rabbit) LD50: 12800 mg/kg ^[2] Inhalation(Mouse) LC50; 53 mg/L4h ^[2] Oral (Mouse) LD50; 3600 mg/kg ^[2] 1. Value obtained from Europe ECHA Registered Subst specified data extracted from RTECS - Register of Toxic	Eye (rabbit): 10 m Eye (rabbit): 100 n Eye (rabbit): 100n Skin (rabbit): 500 ances - Acute toxicity 2. Value obtain Effect of chemical Substances	mg - SEVERE ng/24hr-moderate mg - mild ed from manufacturer's SDS. Unless otherwise ends. This may be due to a non-allergic condition
	Dermal (rabbit) LD50: 12800 mg/kg ^[2] Inhalation(Mouse) LC50; 53 mg/L4h ^[2] Oral (Mouse) LD50; 3600 mg/kg ^[2] 1. Value obtained from Europe ECHA Registered Substance of the specified data extracted from RTECS - Register of Toxic	Eye (rabbit): 10 m Eye (rabbit): 100 m Eye (rabbit): 100 m Eye (rabbit): 100 m Skin (rabbit): 500 Exercise - Acute toxicity 2. Value obtains Effect of chemical Substances The years after exposure to the material solution of the properties	mg - SEVERE mg - mild ed from manufacturer's SDS. Unless otherwise ends. This may be due to a non-allergic condition high levels of highly irritating compound. Main c individual, with sudden onset of persistent er criteria for diagnosis of RADS include a reversible choline challenge testing, and the lack of minimal ation is an infrequent disorder with rates related to ndustrial bronchitis is a disorder that occurs as a completely reversible after exposure ceases. The high dose exposure may also produce depression of thed from the skin or when inhaled. Intentional ing, breathing difficulty, nausea, vomiting and may damage the kidneys. A decrease in the
Legend:	Dermal (rabbit) LD50: 12800 mg/kg ^[2] Inhalation(Mouse) LC50; 53 mg/L4h ^[2] Oral (Mouse) LD50; 3600 mg/kg ^[2] 1. Value obtained from Europe ECHA Registered Substs specified data extracted from RTECS - Register of Toxic Asthma-like symptoms may continue for months or ever known as reactive airways dysfunction syndrome (RADS criteria for diagnosing RADS include the absence of pre asthma-like symptoms within minutes to hours of a docu airflow pattern on lung function tests, moderate to sever lymphocytic inflammation, without eosinophilia. RADS (of the concentration of and duration of exposure to the irrit result of exposure due to high concentrations of irritating disorder is characterized by difficulty breathing, cough a lsopropanol is irritating to the eyes, nose and throat but the central nervous system and drowsiness. Few have in swallowing is common particularly among alcoholics or sheadache. In the absence of unconsciousness, recovery frequency of mating has been found in among animals, of the testes have been observed in the male rat. The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans.	Eye (rabbit): 10 m Eye (rabbit): 10 m Eye (rabbit): 100 n Eye (rabbit): 100 n Skin (rabbit): 500 Skin (rabbit): 500 Skin (rabbit): 500 ances - Acute toxicity 2. Value obtains be Effect of chemical Substances In years after exposure to the material S) which can occur after exposure to vious ainways disease in a non-atopic imented exposure to the irritant. Othe be bronchial hyperreactivity on methad or asthma) following an irritating inhal ating substance. On the other hand, if g substance (often particles) and is cond mucus production. generally not to the skin. Prolonged he eported skin irritation. It can be absonsuicide victims and also leads to faint y usually occurred. Repeated doses in and newborns have been found to ha d in animal testing.	ends. This may be due to a non-allergic condition high levels of highly irritating compound. Main a individual, with sudden onset of persistent or criteria for diagnosis of RADS include a reversible sholine challenge testing, and the lack of minimal ation is an infrequent disorder with rates related to industrial bronchitis is a disorder that occurs as a simpletely reversible after exposure ceases. The high dose exposure may also produce depression of the from the skin or when inhaled. Intentional ing, breathing difficulty, nausea, vomiting and may damage the kidneys. A decrease in the live a greater incidence of low birth weight. Tumours
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Legend: ISOPROPANOL ETHANOL & ISOPROPANOL Acute Toxicity Skin Irritation/Corrosion	Dermal (rabbit) LD50: 12800 mg/kg ^[2] Inhalation(Mouse) LC50; 53 mg/L4h ^[2] Oral (Mouse) LD50; 3600 mg/kg ^[2] 1. Value obtained from Europe ECHA Registered Substs specified data extracted from RTECS - Register of Toxic Asthma-like symptoms may continue for months or ever known as reactive airways dysfunction syndrome (RADS criteria for diagnosing RADS include the absence of pre asthma-like symptoms within minutes to hours of a docuairflow pattern on lung function tests, moderate to sever lymphocytic inflammation, without eosinophilia. RADS (of the concentration of and duration of exposure to the irritresult of exposure due to high concentrations of irritating disorder is characterized by difficulty breathing, cough a Isopropanol is irritating to the eyes, nose and throat but the central nervous system and drowsiness. Few have reswallowing is common particularly among alcoholics or sheadache. In the absence of unconsciousness, recovery frequency of mating has been found in among animals, of the testes have been observed in the male rat. The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limite. The material may cause skin irritation after prolonged or vesicles, scaling and thickening of the skin.	Eye (rabbit): 10 m Eye (rabbit): 100 m Eye (rabbit): 100 m Eye (rabbit): 100 m Skin (rabbit): 500 Ances - Acute toxicity 2. Value obtains Effect of chemical Substances In years after exposure to the material S) which can occur after exposure to vious airways disease in a non-atopic Bronchial hyperreactivity on methad or asthma) following an irritating inhal ating substance. On the other hand, if g substance (often particles) and is cond mucus production. generally not to the skin. Prolonged heported skin irritation. It can be absonated victims and also leads to faint y usually occurred. Repeated doses in and newborns have been found to have and newborns have been found to have a conditional manimal testing. Trepeated exposure and may productivity Carcinogenicity	ends. This may be due to a non-allergic condition high levels of highly irritating compound. Main a individual, with sudden onset of persistent or criteria for diagnosis of RADS include a reversible sholine challenge testing, and the lack of minimal ation is an infrequent disorder with rates related to industrial bronchitis is a disorder that occurs as a simpletely reversible after exposure ceases. The high dose exposure may also produce depression of the from the skin or when inhaled. Intentional ing, breathing difficulty, nausea, vomiting and may damage the kidneys. A decrease in the live a greater incidence of low birth weight. Tumours are on contact skin redness, swelling, the production of

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Legena:

× -

- Data either not available or does not fill the criteria for classification

— Data available to make classification

SECTION 12 Ecological information

Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
· · · · · · · · · · · · · · · · · · ·	Not Available	Not Available	Not Available	Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50(ECx)	96h	Algae or other aquatic plants	<0.001mg/L	4
	EC50	72h	Algae or other aquatic plants	275mg/l	2
ethanol	EC50	48h	Crustacea	>79mg/L	4
	LC50	96h	Fish	>100mg/l	2
	EC50	96h	Algae or other aquatic plants	<0.001mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50(ECx)	24h	Algae or other aquatic plants	0.011mg/L	4
	EC50	72h	Algae or other aquatic plants	>1000mg/l	1
isopropanol	EC50	48h	Crustacea	7550mg/l	4
	LC50	96h	Fish	4200mg/l	4
	EC50	96h	Algae or other aquatic plants	>1000mg/l	1
Legend:			HA Registered Substances - Ecotoxicological Information Aquatic Hazard Assessment Data 6. NITE (Japan) - Bic		

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)

Bioaccumulative potential

Ingredient	Bioaccumulation
ethanol	LOW (LogKOW = -0.31)
isopropanol	LOW (LogKOW = 0.05)

Mobility in soil

Ingredient	Mobility
ethanol	HIGH (KOC = 1)
isopropanol	HIGH (KOC = 1.06)

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

- Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.
- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- ► Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment 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.

SECTION 14 Transport information

Labels Required

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Marine Pollutant	NO
HAZCHEM	•2Y

Land transport (ADG)

UN number	1170		
UN proper shipping name	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)		
Transport hazard class(es)	Class 3 Subrisk Not Applicable		
Packing group			
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions 144 223 Limited quantity 5 L		

Air transport (ICAO-IATA / DGR)

ir transport (ICAO-IATA / DGR)				
UN number	1170			
UN proper shipping name	Ethanol or Ethanol. solution			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	3 Not Applicable 3L		
Packing group	III			
Environmental hazard	Not Applicable			
Special precautions for user	Special provisions		A3 A58 A180	
	Cargo Only Packing Instructions		366	
	Cargo Only Maximum Qty / Pack		220 L	
	Passenger and Cargo Packing Instructions		355	
	Passenger and Cargo Maximum Qty / Pack		60 L	
	Passenger and Cargo Limited Quantity Packing Instructions		Y344	
	Passenger and Cargo Limited Maximum Qty / Pack		10 L	

Sea transport (IMDG-Code / GGVSee)

	·		
UN number	1170		
UN proper shipping name	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)		
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable		
Packing group			
Environmental hazard	Not Applicable		
Special precautions for user	EMS Number F-E, S-D Special provisions 144 223 Limited Quantities 5 L		

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

Not Applicable

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

Product name	Group
ethanol	Not Available
isopropanol	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
ethanol	Not Available
isopropanol	Not Available

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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

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (ethanol; isopropanol)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	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	22/12/2022
Initial Date	22/12/2022

SDS Version Summary

Version	Date of Update	Sections Updated
2.1	22/12/2022	Classification

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

LOD: 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 Chemwatch: 5584-34 Page 11 of 11 Issue Date: 22/12/2022 Version No: 2.1 Print Date: 03/01/2023

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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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