Asaleo Care

Chemwatch Hazard Alert Code: 3

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L.GHS.NZL.EN.E

Chemwatch: **5514-39** Version No: **3.1** Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

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

Product Identifier

Product name	Tork Antimicrobial Foam Soap		
Chemical Name	Not Applicable		
Synonyms	Tork Antimicrobial Foam Soap 1Lx6 S4; Product Code: 520801 / 520800		
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	Skin disinfectant.		
uses	SDS are intended for use in the workplace. For domestic-use products, refer to consumer labels.		

Details of the supplier of the safety data sheet

Registered company name	Asaleo Care
Address	Level 2, 103 Carlton Gore Road Newmarket Auckland 1023 New Zealand
Telephone	0800 523 565
Fax	Not Available
Website	http://www.asaleocare.com/
Email	customerservice@asaleocare.com

Emergency telephone number

Association / Organisation	Asaleo Care
Emergency telephone numbers	0800 523 565
Other emergency telephone numbers	Not Available

SECTION 2 Hazards identification

Classification of the substance or mixture

Classification ^[1]	Classification ^[1] Flammable Liquids Category 3, Serious Eye Damage/Eye Irritation Category 2		
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI		

Page 1 continued...

Determined by	
Chemwatch using	3.1C, 6.4A
GHS/HSNO criteria	

Label elements

Hazard pictogram(s)		
Signal word	Warning	

Hazard 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.
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 normal protein foam 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

Tork Antin	nicrobial	Foam S	boap
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CAS No	%[weight] Name			
64-17-5	30-40	ethanol		
67-63-0	<5	isopropanol		
Not Available	balance	Ingredients determined not to be hazardous		
Legend: 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 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

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	 Concentrate and diluted solution is readily removed with water. Abraded or broken skin should be washed carefully and thoroughly. Seek medical attention in event of irritation. Discontinue use if irritation occurs
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

Extinguishing media

Alcohol stable foam.

- Tork Antimicrobial Foam Soap
- Dry chemical powder.
- BCF (where regulations permit).
- ▸ Carbon dioxide.
- Water spray or fog Large fires only.

Do not use water jets.

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. 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

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb small quantities with vermiculite or other absorbent material. Wipe up. Collect residues in a flammable waste container.
Major Spills	 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.

Continued...

- 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

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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. DO NOT allow clothing wet with material to stay in contact with skin Avoid all personal contact, including inhalation. Wear protective clothing when risk of overexposure 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 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. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.
Other information	 Store in original containers 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.

Continued...

. Keen adapthents for looks and anills readily sysilable
 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

	 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)				
Suitable container	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	Avoid oxidising agents, acids, acid chlorides, acid anhydrides, chloroformates.				
incompatibility	 Avoid strong bases. * 				

SECTION 8 Exposure controls / personal protection

2,000 ppm

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	ethanol	Ethyl alcohol (Ethanol)	1000 ppm / 1880 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	isopropanol	Isopropyl alcohol	400 ppm / 983 mg/m3	1230 mg/m3 / 500 ppm	Not Available	Not Available

Emergency Limits

isopropanol

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	

Not Available

MATERIAL DATA

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. 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. For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant. 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:		Air Speed:		
	solvent, vapours, degreasing etc., evaporating from tank (i	n still air).	0.25-0.5 m/s (50-100 f/min.)		
Appropriate engineering controls	aerosols, fumes from pouring operations, intermittent conta conveyer transfers, welding, spray drift, plating acid fumes velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)			
	direct spray, spray painting in shallow booths, drum filling, dusts, gas discharge (active generation into zone of rapid		1-2.5 m/s (200-500 f/min.)		
	Within each range the appropriate value depends on:				
	Lower end of the range Upper end of the range				
	1: Room air currents minimal or favourable to capture	1: Disturbing room air curren	ts		
	2: Contaminants of low toxicity or of nuisance value only. 2: Contaminants of high toxic		city		
	3: Intermittent, low production.	3: High production, heavy us	e		
	4: Large hood or large air mass in motion	4: Small hood-local control o	nly		
	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.				
Personal protection					
Eye and face protection	No special equipment for minor exposure i.e. when handling OTHERWISE: • Safety glasses with side shields. • Contact lenses may pose a special hazard; soft contact I		ntrate 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 No special equipment needed when handling small quantities. Hands/feet protection OTHERWISE: Wear chemical protective gloves, e.g. PVC. **Body protection** See Other protection below No special equipment needed when handling small quantities. OTHERWISE: Other protection Overalls. Barrier cream. ▶ Eyewash unit.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Tork Antimicrobial Foam Soap

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

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

^ - 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 = Armonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

None required when handling small quantities.

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered

appropriate.

Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance Colourless flammable liquid with alcohol odour; mixes with water.

Physical state	Liquid	Relative density (Water = 1)	0.935
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	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	1.07-53.476
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 (Not Available%)	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

Continued...

Hazardous decomposition products

SECTION 11 Toxicological information

See section 5

Information on toxicological effects

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Inhaled	reduced alertness, Inhalation of vapou handling, may be d The most common and drowsiness for 19260 ppm. Acute effects from i with nausea; centra reaction time, fatigu The odour of isopro- isopropanol may pr effects in animals s histopathological ch Limited evidence of respiratory system, the lung is able to r repairing the damage matter and antigens	rs may cause drowsiness and dizziness. This may be accompanied by narcosis, loss of reflexes, lack of coordination and vertigo. rs or aerosols (mists, fumes), generated by the material during the course of normal lamaging to the health of the individual. signs of inhalation overexposure to ethanol, in animals, include ataxia, incoordination those surviving narcosis. The narcotic dose for rats, after 2 hours of exposure, is inhalation of high concentrations of vapour are pulmonary irritation, including coughing, al nervous system depression - characterised by headache and dizziness, increased ue and loss of co-ordination oppanol may give some warning of exposure, but odour fatigue may occur. Inhalation of roduce irritation of the nose and throat with sneezing, sore throat and runny nose. The subject to a single exposure, by inhalation, included inactivity or anaesthesia and hanges in the nasal canal and auditory canal. r practical experience suggests that the material may produce irritation of the in a significant number of individuals, following inhalation. In contrast to most organs, respond to a chemical insult by first removing or neutralising the irritant and then ge. The repair process, which initially evolved to protect mammalian lungs from foreign s, may however, produce further lung damage resulting in the impairment of gas nary function of the lungs. Respiratory tract irritation often results in an inflammatory the recruitment and activation of many cell types, mainly derived from the vascular
Ingestion	Ingestion of ethano diarrhoea. Systemic Blood concentration: <1.5 g/l 1.5-3.0 g/l 3-5 g/l	Effects: Mild: Impaired visual acuity, coordination and reaction time, emotional lability Moderate: Slurred speech, confusion, ataxia, emotional lability, perceptual and sensation disturbances possible blackout spells, and incoordination with impaired objective performance in standardised tests. Possible diplopia, flushing, tachycardia, sweating and incontinence. Bradypnoea may occur early and tachypnoea may develop in cases of metabollic acidosis, hypoglycaemia and hypokalaemia. CNS depression may progress to coma. Severe: Cold clammy skin, hypothermia and hypotension. Atrial fibrillation and atrioventricular block have been reported. Respiratory depression may occur, respiratory failure may follow serious intoxication, aspiration of vomitus may result in pneumonitis and pulmonary oedema. Convulsions due to severe hypoglycaemia may also occur Acute hepatitis may develop.
	such as weight loss	s and irritation. Ingestion of near-lethal doses of isopropanol produces

	histopathological changes of the stomach, lungs and kidneys, incoordination, lethargy, gastrointestinal tract irritation, and inactivity or anaesthesia. Swallowing 10 ml. of isopropanol may cause serious injury; 100 ml. may be fatal if not promptly treated. The adult single lethal doses is approximately 250 ml. The toxicity of isopropanol is twice that of ethanol and the symptoms of intoxication appear to be similar except for the absence of an initial euphoric effect; gastritis and vomiting are more prominent. Ingestion may cause nausea, vomiting, and diarrhoea. There is evidence that a slight tolerance to isopropanol may be acquired.
Skin Contact	Not considered to cause discomfort through normal use. Excessive use or prolonged contact may lead to defatting, drying and irritation of sensitive skin
Eye	Direct contact of the eye with ethanol may cause immediate stinging and burning with reflex closure of the lid and tearing, transient injury of the corneal epithelium and hyperaemia of the conjunctiva. Foreign-body type discomfort may persist for up to 2 days but healing is usually spontaneous and complete. Isopropanol vapour may cause mild eye irritation at 400 ppm. Splashes may cause severe eye irritation, possible corneal burns and eye damage. Eye contact may cause tearing or blurring of vision. Evidence exists, or practical experience predicts, that the material may cause severe eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Eye contact may cause significant inflammation with pain. Corneal injury may occur; permanent impairment of vision may result unless treatment is prompt and adequate. Repeated or prolonged exposure to irritants may cause inflammation characterised by a temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.
Chronic	 Principal hazards are accidental eye contact and cleaner overuse. Overuse or obsessive cleaner use may lead to defatting of the skin and may cause irritation, drying, cracking, leading to dermatitis. Long-term exposure to ethanol may result in progressive liver damage with fibrosis or may exacerbate liver injury caused by other agents. Repeated ingestion of ethanol by pregnant women may adversely affect the central nervous system of the developing foetus, producing effects collectively described as foetal alcohol syndrome. These include mental and physical retardation, learning disturbances, motor and language deficiency, behavioural disorders and reduced head size. Consumption of ethanol (in alcoholic beverages) may be linked to the development of Type I hypersensitivities in a small number of individuals. Symptoms, which may appear immediately after consumption, include conjunctivitis, angioedema, dyspnoea, and urticarial rashes. The causative agent may be acetic acid, a metabolite (1). (1) Boehncke W.H., & H.Gall, Clinical & Experimental Allergy, 26, 1089-1091, 1996 Long term or repeated ingestion exposure to isopropanol may produce narcosis, incoordination, lethargy and reduced weight gain. Repeated inhalation exposure to isopropanol may produce narcosis, incoordination and liver degeneration. Animal data show developmental effects only at exposure levels that produce toxic effects in the adult animals. Isopropanol does not cause genetic damage in bacterial or mammalian cell cultures or in animals. There are inconclusive reports of human sensitisation from skin contact with isopropanol. Chronic alcoholics have survived as much as 500 ml. of 70% isopropanol. Continued voluntary drinking of a 2.5% aqueous solution through two successive generations of rats produced no reproductive effects. NOTE: Commercial isopropanol does not contain "isopropy oil". An excess incidence of sinus and laryngeal cancers in isopropanol production wor

laryngeal cancers in isopropanol production workers has been shown to be caused by the byproduct "isopropyl oil". Changes in the production processes now ensure that no byproduct is formed. Production changes include use of dilute sulfuric acid at higher temperatures.

Tork Antimicrobial Foam Soa	Tork	Antimicrobial	Foam	Soar
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Tork Antimicrobial	ΤΟΧΙΟΙΤΥ	IRRITATION
Foam Soap	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: 17100 mg/kg ^[1]	Eye (rabbit): 500 mg SEVERE
	Inhalation(Rat) LC50; 64000 ppm4h ^[2]	Eye (rabbit):100mg/24hr-moderate
ethanol	Oral (Rat) LD50; 7060 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]
		Skin (rabbit):20 mg/24hr-moderate
		Skin (rabbit):400 mg (open)-mild
		Skin: no adverse effect observed (not irritating) ^[1]
	ΤΟΧΙCΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: 12800 mg/kg ^[2]	Eye (rabbit): 10 mg - moderate
isopropanol	Inhalation(Mouse) LC50; 53 mg/L4h ^[2]	Eye (rabbit): 100 mg - SEVERE
	Oral (Mouse) LD50; 3600 mg/kg ^[2]	Eye (rabbit): 100mg/24hr-moderate
		Skin (rabbit): 500 mg - mild
Legend:		ed Substances - Acute toxicity 2.* Value obtained from ed data extracted from RTECS - Register of Toxic Effect of
ETHANOL	dermatitis (nonallergic). This form of dermatitis	onged or repeated exposure and may produce a contact is often characterised by skin redness (erythema) and be intercellular oedema of the spongy layer (spongiosis)
ISOPROPANOL	This may be due to a non-allergenic condition k which can occur following exposure to high level diagnosis of RADS include the absence of prece abrupt onset of persistent asthma-like symptom the irritant. A reversible airflow pattern, on spirot hyperreactivity on methacholine challenge testi without eosinophilia, have also been included in following an irritating inhalation is an infrequent duration of exposure to the irritating substance. occurs as result of exposure due to high concer and is completely reversible after exposure cea mucus production. For isopropanol (IPA): Acute toxicity: Isopropanol has a low order of Very high vapor concentrations are irritating to the produce central nervous system depression and 400 ppm isopropanol vapors for 3 to 5 min. cau Although isopropanol produced little irritation we been reports of isolated cases of dermal irritation sponge treatment for the control of fever has re dermal absorption and inhalation. There have be intentional ingestion of isopropanol, particularly typically result in a comatose condition. Pulmor	hen tested on the skin of human volunteers, there have on and/or sensitization. The use of isopropanol as a sulted in cases of intoxication, probably the result of both een a number of cases of poisoning reported due to the among alcoholics or suicide victims. These ingestions

shock, recovery usually occurred.

Repeat dose studies: The systemic (non-cancer) toxicity of repeated exposure to isopropanol has been
evaluated in rats and mice by the inhalation and oral routes. The only adverse effects-in addition to
clinical signs identified
from these studies were to the kidney.
Reproductive toxicity: A recent two-generation reproductive study characterised the reproductive
hazard for isopropanol associated with oral gavage exposure. This study found that the only reproductive
parameter apparently affected by isopropanol exposure was a statistically significant decrease in male
mating index of the F1 males. It is possible that the change in this reproductive parameter was treatment
related and significant, although the mechanism of this effect could not be discerned from the results of
the study. However, the lack of a significant effect of the female mating index in either generation, the
absence of any adverse effect on litter size, and the lack of histopathological findings of the testes of the
high-dose males suggest that the observed reduction in male mating index may not be biologically
meaningful.
Developmental toxicity: The developmental toxicity of isopropanol has been characterized in rat and
rabbit developmental toxicity studies. These studies indicate that isopropanol is not a selective
developmental hazard. Isopropanol produced developmental toxicity in rats, but not in rabbits. In the rat,
the developmental toxicity occurred only at maternally toxic doses and consisted of decreased foetal body
weights, but no teratogenicity
Genotoxicity: All genotoxicity assays reported for isopropanol have been negative
Carcinogenicity: rodent inhalation studies were conduct to evaluate isopropanol for cancer potential.
The only tumor rate increase seen was for interstitial (Leydig) cell tumors in the male rats. Interstitial cell
tumors of the testis is typically the most frequently observed spontaneous tumor in aged male Fischer
344 rats. These studies demonstrate that isopropanol does not exhibit carcinogenic potential relevant to
humans. Furthermore, there was no evidence from this study to indicate the development of carcinomas
of the testes in the male rat, nor has isopropanol been found to be genotoxic. Thus, the testicular tumors
seen in the isopropanol exposed male rats are considered of no significance in terms of human cancer
risk assessment
The material may cause skin irritation after prolonged or repeated exposure and may produce a contact
dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and
swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and
intracellular oedema of the epidermis.
The substance is classified by IARC as Group 3:
NOT classifiable as to its carcinogenicity to humans.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	*	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend: x − Data either not available or does not fill the criteria for classification → − Data available to make classification

SECTION 12 Ecological information

Toxicity

Tork Antimicrobial Foam Soap	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available

	Endpoint	Test Duration (hr)	Species	Value	Source
ethanol	EC50(ECx)	96h	Algae or other aquatic plants	<0.001mg/L	4
	LC50	96h	Fish	>100mg/l	2
	EC50	72h	Algae or other aquatic plants	275mg/l	2
	EC50	48h	Crustacea	>79mg/L	4
	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
	LC50	96h	Fish	4200mg/l	4
isopropanol	EC50	72h	Algae or other aquatic plants	>1000mg/l	1
	EC50	48h	Crustacea	7550mg/l	4
	EC50	96h	Algae or other aquatic plants	>1000mg/l	1
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration				Aquatic

DO NOT discharge into sewer or waterways.

Data 8. Vendor Data

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

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

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

DO NOT deposit the hazardous substance into or onto a landfill or a sewage facility.

Burning the hazardous substance must happen under controlled conditions with no person or place exposed to

(1) a blast overpressure of more than 9 kPa; or

(2) an unsafe level of heat radiation.

The disposed hazardous substance must not come into contact with class 1 or 5 substances.

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	•2Y

Land transport (UN)

UN number	1170	1170		
UN proper shipping name	ETHANOL	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)		
Transport hazard class(es)	Class Subrisk			
Packing group	Ш	III		
Environmental hazard	Not Applic	Not Applicable		
Special precautions for user	Special provisions144; 223Limited quantity5 L			

Air transport (ICAO-IATA / DGR)

UN number	1170				
UN proper shipping name	Ethanol or Ethanol. solution				
	ICAO/IATA Class	3			
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable			
01400(00)	ERG Code	3L			
Packing group	III				
Environmental hazard	Not Applicable				
	Special provisions			A3 A58 A180	
Special precautions	Cargo Only Packing I	nstructions		366	
for user	Cargo Only Maximum Qty / Pack 220 L		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	1170			
UN proper shipping name	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)				
Transport hazard class(es)					
Packing group	Ш	III			
Environmental hazard	Not Applicable	Not Applicable			
Special precautions	EMS Number	F-E , S-D			
for user	Special provisions	s 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

SECTION 15 Regulatory information

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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard
HSR002552	Cosmetic Products Group Standard 2020

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

ethanol is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data New Zealand Inventory of Chemicals (NZIoC) New Zealand Workplace Exposure Standards (WES)

isopropanol is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents

Classified by the IARC Monographs New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data New Zealand Inventory of Chemicals (NZIoC) New Zealand Workplace Exposure Standards (WES)

Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantity (Closed Containers)	Quantity (Open Containers)
3.1C	500 L in containers more than 5 L	250 L
3.1C	1 500 L in containers up to and including 5 L	250 L

Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
3.1C or 3.1D				10 L

Tracking Requirements

Not Applicable

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

Tork Antimicrobial Foam Soap	(
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National Inventory	Status	
Russia - FBEPH	Yes	
	Yes = All CAS declared ingredients are on the inventory	
Legend:	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	26/01/2022
Initial Date	20/01/2022

SDS Version Summary

Version	Date of Update	Sections Updated
2.1	20/01/2022	Fire Fighter (extinguishing media), Supplier Information
3.1	26/01/2022	Acute Health (skin), Chronic Health, Disposal, First Aid (skin), Personal Protection (other), Personal Protection (Respirator), Personal Protection (eye), Personal Protection (hands/feet), Supplier Information, Use

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 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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