Miteq BR 128

Miteq P/L

Chemwatch: 30-4033

Chemwatch Hazard Alert Code: 2 Issue Date: 12/09/2019

Version No: 3.1.1.1 Safety Data Sheet according to WHS and ADG requirements Print Date: 17/09/2019 S.GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	Miteq BR 128
Proper shipping name	TETRAETHYL SILICATE
Other means of identification	Not Available

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

Relevant identified uses	Modifying agent for building materials.
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Details of the supplier of the safety data sheet

Registered company name	Miteq P/L
Address	Unit 1, 45-49 Popes Road Keysborough VIC 3173 Australia
Telephone	(03) 9532 5747
Fax	Not Available
Website	www.miteq.com.au

Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

Poisons Schedule	Not Applicable
Classification ^[1]	Flammable Liquid Category 3, Acute Toxicity (Inhalation) Category 4, Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation)
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)

Miteq BR 128

H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statement(s) Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P271	Use only outdoors or in a well-ventilated area.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement(s) Response

P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam for extinction.
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 or doctor/physician if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
78-10-4	25-50	tetraethyl silicate
Not Available	balance	ingredients non-hazardous
Not Available		reacts with water or moisture to form
Not Available		ethanol

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	 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.

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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, we procedures. Apply artificial respiration if not breathing, preferably with a demand valve resurpocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor. 	where possible, prior to initiating first aid uscitator, bag-valve mask device, or
Ingestion	 Rinse mouth out with plenty of water. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced away. Give water to rinse out mouth, then provide liquid slowly and as much as casus. Seek medical advice. 	n, if possible) to maintain open airway rareness; i.e. becoming unconscious. alty can comfortably drink.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

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

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). Other combustion products include: carbon dioxide (CO2) silicon dioxide (SiO2)
HAZCHEM	3Y

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. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. 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

Safe handling	 Avoid generating and breathing mist 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	 Moisture sensitive. Keep dry Store in approved flammable liquid storage area. No smoking, naked lights/ignition sources. Keep containers securely sealed. Store away from incompatible materials in a cool, dry, well-ventilated area. Protect containers against physical damage and check regularly for leaks. 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 For bulk storages, consider use of floating roof or nitrogen blanketed vessels; where venting to atmosphere is possible, equip storage tank should be above ground and diked to hold entire contents. Observe manufacturer's storage and handling recommendations contained within this SDS.

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Conditions for safe storage, including any incompatibilities

Suitable container	 Plastic container Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Segregate from water , strong alkalis and strong acids

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	tetraethyl silicate	Ethyl silicate	10 ppm / 85 mg/m3	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
tetraethyl silicate	e Tetraethyl orthosilicate; (Ethyl silicate; Tetraethoxysilane)		Not Available	Not Available	Not Available
Ingredient	Original IDLH	Re	vised IDLH		
tetraethyl silicate	700 ppm	No	t Available		

Exposure controls

	Use in a well-ventilated area 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. General exhaust is adequate under normal operating 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			
	the "capture velocities" of fresh circulating air required to eff	Air Speed:		
Appropriate engineering controls	solvent, vapours, degreasing etc., evaporating from tank (in	0.25-0.5 m/s (50-100 f/min)		
	aerosols, fumes from pouring operations, intermittent conta transfers, welding, spray drift, plating acid fumes, pickling (active generation)	0.5-1 m/s (100-200 f/min.)		
	direct spray, spray painting in shallow booths, drum filling, discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min)		
	grinding, abrasive blasting, tumbling, high speed wheel gene velocity into zone of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)		
	Within each range the appropriate value depends on:			
	Lower end of the range	Upper end of the range		
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents		
	2: Contaminants of low toxicity or of nuisance value only	nts of low toxicity or of nuisance value only 2: Contaminants of high toxicity		
	3: Intermittent, low production.	3: High production, heavy use		

4: Large hood or large air mass in motion

4: Small hood - local control only

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
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Eye and face protection	 Safety glasses with side shields; or as required, 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	 Rubber gloves Polyethylene gloves Safety footwear
Body protection	See Other protection below
Other protection	 Handle and open container with care Overalls. Eyewash unit.

Respiratory protection

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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Colourless to yellowish flammable liquid with a slight odour; does not mix with water.				
Physical state	Liquid	Relative density (Water = 1)	0.997		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available		
Odour threshold	Not Available	Auto-ignition temperature (°C)	230		
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available		
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	1.6 @ 25C		
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available		
Flash point (°C)	40	Taste	Not Available		
Evaporation rate	Not Available	Explosive properties	Not Available		
Flammability	Flammable.	Oxidising properties	Not Available		
Upper Explosive Limit (%)	~23	Surface Tension (dyn/cm or mN/m)	Not Available		
Lower Explosive Limit (%)	~1.3	Volatile Component (%vol)	Not Available		
Vapour pressure (kPa)	Not Available	Gas group	Not Available		

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Solubility in water	Immiscible	pH as a solu	ition (1%) Not Applicab	le

 Vapour density (Air = 1)
 >1
 VOC g/L
 Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 Reacts with water in the presence of basic substances or acids. Reaction forms ethanol. 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

TETRAETHYL SILICATE

Inhaled	The vapour is discomforting Acute effects from inhalation of high vapour concentrations may be chest and nasal irritation with coughing, sneezing, headache and even nausea. Inhalation of vapour may aggravate a pre-existing respiratory condition such as asthma, bronchitis, emphysema
Ingestion	Considered an unlikely route of entry in commercial/industrial environments The material is highly discomforting Ingestion may result in nausea, abdominal irritation, pain and vomiting
Skin Contact	The liquid may produce skin discomfort following prolonged contact. Defatting and/or drying of the skin may lead to dermatitis The material may accentuate any pre-existing dermatitis condition 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.
Eye	This material can cause eye irritation and damage in some persons.
Chronic	Principal routes of exposure are by accidental skin and eye contact and by inhalation of vapours especially at higher temperatures. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.

Miteq BR 128	TOXICITY	IRRITATION	
	Not Available	Not Available	
	TOXICITY	IRRITATION	
tetraethyl silicate	Dermal (rabbit) LD50: 5878 mg/kg ^[2]	Eye (human): 3000 ppm	
	Oral (rat) LD50: >2000 mg/kg ^[1]	Eye (rabbit): 100 mg mild	
		Eye (rabbit): 500 mg/24h - mild	
	Skin (rabbit): 500mg/24h moderate		
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		

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 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.
Liver, kidney and lung damage may result from overexposure by inhalation or swallowing. Animal testing showed that
exposure to 400 parts per million for 30 days can be lethal.
The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure
to irritants may produce conjunctivitis.
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.
For silica amorphous:
When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly
eliminated. If swallowed, the vast majority of SAS is excreted in the faeces and there is little accumulation in the body.
Following absorption across the gut, SAS is eliminated via urine without modification in animals and humans. SAS is not
expected to be broken down (metabolised) in mammals.
After ingestion, there is limited accumulation of SAS in body tissues and rapid elimination occurs. Intestinal absorption has
not been calculated, but appears to be insignificant in animals and humans. SASs injected subcutaneously are subjected
to rapid dissolution and removal. There is no indication of metabolism of SAS in animals or humans based on chemical
structure and available data. In contrast to crystalline silica, SAS is soluble in physiological media and the soluble
chemical species that are formed are eliminated via the urinary tract without modification.
Both the mammalian and environmental toxicology of SASs are significantly influenced by the physical and chemical
properties, particularly those of solubility and particle size. SAS has no acute intrinsic toxicity by inhalation. Adverse
effects, including suffocation, that have been reported were caused by the presence of high numbers of respirable
particles generated to meet the required test atmosphere. These results are not representative of exposure to commercial
SASs and should not be used for human risk assessment. Though repeated exposure of the skin may cause dryness and
cracking, SAS is not a skin or eye irritant, and it is not a sensitiser.
Repeated-dose and chronic toxicity studies confirm the absence of toxicity when SAS is swallowed or upon skin contact.
Long-term inhalation of SAS caused some adverse effects in animals (increases in lung inflammation, cell injury and lung
collagen content), all of which subsided after exposure.
Numerous repeated-dose, subchronic and chronic inhalation toxicity studies have been conducted with SAS in a number of
species, at airborne concentrations ranging from 0.5 mg/m3 to 150 mg/m3. Lowest-observed adverse effect levels
(LOAELs) were typically in the range of 1 to 50 mg/m3. When available, the no-observed adverse effect levels (NOAELs)
were between 0.5 and 10 mg/m3. The difference in values may be explained by different particle size, and therefore the
number of particles administered per unit dose. In general, as particle size decreases so does the NOAEL/LOAEL.
Neither inhalation nor oral administration caused neoplasms (tumours). SAS is not mutagenic in vitro. No genotoxicity was
detected in in vivo assays. SAS does not impair development of the foetus. Fertility was not specifically studied, but the
reproductive organs in long-term studies were not affected.
In humans, SAS is essentially non-toxic by mouth, skin or eyes, and by inhalation. Epidemiology studies show little
evidence of adverse health effects due to SAS. Repeated exposure (without personal protection) may cause mechanical
irritation of the eye and drying/cracking of the skin.
There is no evidence of cancer or other long-term respiratory health effects (for example, silicosis) in workers employed in
the manufacture of SAS. Respiratory symptoms in SAS workers have been shown to correlate with smoking but not with
SAS exposure, while serial pulmonary function values and chest radiographs are not adversely affected by long-term
exposure to SAS.

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					
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
Miteq BR 128	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	>245mg/L	2
tetraethyl silicate	EC50	48	Crustacea	>75mg/L	2
	EC50	72	Algae or other aquatic plants	>1-39.3mg/L	2

Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
tetraethyl silicate	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
tetraethyl silicate	LOW (LogKOW = 0.0362)

Mobility in soil

Ingredient	Mobility
tetraethyl silicate	LOW (KOC = 8766)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging	 Consult manufacturer for recycling options and recycle where possible . Consult State Land Waste Management Authority for disposal.
disposal	 Incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	3Y

Land transport (ADG)

UN number	1292	
UN proper shipping name	TETRAETHYL SILICATE	
Transport hazard class(es)	Class 3 Subrisk Not Applicable	
Packing group	III	
Environmental hazard	Not Applicable	
Special precautions for user	Special provisionsNot ApplicableLimited quantity5 L	

Air transport (ICAO-IATA / DGR)

UN number 1292	
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UN proper shipping name	Tetraethyl silicate			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	3 Not Applicable 3L		
Packing group	III			
Environmental hazard	Not Applicable			
	Special provisions Cargo Only Packing Instructions		Not Applicable 366	
Special precautions for	Cargo Only Maximum Qty / Pack		220 L	
	Passenger and Cargo Packing Instructions		355	
4001	Passenger and Cargo Maximum Qty / Pack		60 L	

Y344

10 L

Passenger and Cargo Limited Quantity Packing Instructions

Passenger and Cargo Limited Maximum Qty / Pack

Sea transport (IMDG-Code / GGVSee)

UN number	1292		
UN proper shipping name	TETRAETHYL SILICATE		
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable		
Packing group	III		
Environmental hazard	Not Applicable		
Special precautions for user	EMS Number Special provisions Limited Quantities	F-E , S-D Not Applicable 5 L	

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

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

TETRAETHYL SILICATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List	IMO IBC Code Chapter 18: List of products to which the Code does not
Australia Dangerous Goods Code (ADG Code) - List of Emergency Action	apply
Codes	International Air Transport Association (IATA) Dangerous Goods Regulations
Australia Exposure Standards	International Maritime Dangerous Goods Requirements (IMDG Code)
Australia Hazardous Chemical Information System (HCIS) - Hazardous	United Nations Recommendations on the Transport of Dangerous Goods
Chemicals	Model Regulations
Australia Inventory of Chemical Substances (AICS)	

National Inventory Status

National Inventory	Status
Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	No (tetraethyl silicate)
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 - ARIPS	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 and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Revision Date	12/09/2019
Initial Date	01/11/2009

Other information

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

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

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