

SDI (North America) Inc.

Version No: 2.1

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: 29/08/2023 Print Date: 22/11/2023 L.GHS.USA.EN

SECTION 1 Identification

Product Identifier

Product name	ZipBond Universal - dental adhesive
Chemical Name	Not Applicable
Synonyms	Not Available
Proper shipping name	Ethanol or Ethyl alcohol; Ethanol solutions or Ethyl alcohol solutions
Chemical formula	Not Applicable
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses Professional dental use: Dental bonding agent.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

· · · ·	· ·		
Registered company name	SDI (North America) Inc.	SDI Limited	SDI HOLDINGS PTY LTD DO
Address	1279 Hamilton Parkway Itasca IL 60143 United States	3-15 Brunsdon Street Bayswater VIC 3153 Australia	Rua Dr. Reinaldo Schmithausen 3141 – Cordeiros Itajaí – SC – CEP 88310-004 Brazil
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Email	USA.Canada@sdi.com.au info@sdi.com.au Brasil@sdi.com.au		
Registered company name	v name SDI Germany GmbH		
Address	Hansestrasse 85 Cologne D-51149 Germany		
Telephone	+49 0 2203 9255 0		
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Website	www.sdi.com.au		
Email	germany@sdi.com.au		

Emergency phone number

Association / Organisation	SDI Limited	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	131126 Poisons Information Centre	+1 855-237-5573
Other emergency telephone numbers	+61 3 8727 7111	+61 3 9573 3188

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

Una vez conectado y si el mensaje no está en su idioma preferido, por favor marque 02

SECTION 2 Hazard(s) identification

Classification of the substance or mixture

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Flammable Liquids Category 2, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A

Label elements	
Hazard pictogram(s)	
Signal word	Danger
Hazard statement(s)	
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

Hazard(s) not otherwise classified

Not Applicable

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/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.
P264	Wash all exposed external body areas thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves, protective clothing, eye protection and face protection.

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.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

Precautionary statement(s) Storage

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

H319 Causes serious eye irritation.

Precautionary statement(s) Disposal

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

SECTION 3 Composition / information on ingredients

P501

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
64-17-5	30-35	ethanol
Not Available	40-50	acrylic monomer

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 First-aid measures

Description of first aid measures If this product comes in contact with the eyes: Wash out immediately with fresh running water. Eye Contact 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. Continued...

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	 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.

Most important symptoms and effects, both acute and delayed

See Section 11

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 Fire-fighting measures

Extinguishing media

- Alcohol stable 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

Special protective equipment and precautions for fire-fighters

Fire/Explosion Hazard Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water course. Consider evacuation (or protect in place). Fight fire from a safe distance, with adequate cover. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control the 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 Fire/Explosion Hazard On combustion, may emit toxic fumes of carbon monoxide (CO).		
Fire/Explosion Hazard Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat, flame and/or oxidisers. 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). 	Fire Fighting	 May be violently or explosively reactive. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water course. Consider evacuation (or protect in place). Fight fire from a safe distance, with adequate cover. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control the fire and cool adjacent area.
Fire/Explosion Hazard Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat, flame and/or oxidisers. 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). 		 Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location.
	Fire/Explosion Hazard	 Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat, flame and/or oxidisers. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers.

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

	Remove all ignition sources.
Minor Spills	Clean up all spills immediately.

Avoid breathing vapours and contact with skin and eyes.

	Control personal contact with the substance, by using protective equipment.
	Contain and absorb small quantities with vermiculite or other absorbent material.
	▶ Wipe up.
	Collect residues in a flammable waste container.
	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.
Major Spills	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

	 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 exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights, heat or ignition sources.
Safe handling	 When handling, DO NOT eat, drink or smoke. Vapour may ignite on pumping or pouring due to static electricity. DO NOT use plastic buckets. Earth and secure metal containers when dispensing or pouring product. Use spark-free tools when handling. Avoid contact with incompatible materials. Keep containers securely sealed. Avoid physical damage to containers. Always wash hands with scap 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 flame-proof area. No smoking, naked lights, heat or ignition sources. DO NOT store in pits, depression, basement or areas where vapours may be trapped. 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. Observe manufacturer's storage and handling recommendations contained within this MSDS. Tank storage: Tanks must be specifically designed for use with this product. Bulk storage tanks should be diked (bunded). Locate tanks awa from heat and other sources of ignition. Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of strict procedures and precautions. Keep in a cool place. Electrostatic charges will be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk. The vapours in the head space of the storage vessel may li in the flammable/explosive range and hence may be flammable. For containers, or container linings use mild steel, stainless steel. Examples of suitable materials are: high density polyethylene (HDPE), polypropylene (PP), and Viton (FMK), which have been specifically tested for compatibility with this product. For container linings, use amine-adduct cured epoxy paint. For seals and gaskets use: graphite, PTFE, Viton A, Viton B. Unsuitable material: Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Examples of materials to avoid are: natural rubber (NR), nitrile rubber (NBR), ethylene propylene rubber (EPDM), polymethyl methacrylate (PMMA), polystyrene, polyvinyl chloride (PVC), polyisobutylene. However, some may be suitable for glove materials. Do not

Conditions for safe storage, including any incompatibilities

Suitable container	 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 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.
	 (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	 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
US OSHA Permissible Exposure Limits (PELs) Table Z-1	ethanol	Ethyl alcohol (Ethanol)	1000 ppm / 1900 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	ethanol	Ethyl alcohol	1000 ppm / 1900 mg/m3	Not Available	Not Available	Not Available

Emergency Limits				
Ingredient	TEEL-1	TEEL-2		TEEL-3
ethanol	Not Available	Not Available		15000* ppm
Ingredient	Original IDLH		Revised IDLH	
ethanol	3,300 ppm		Not Available	

MATERIAL DATA

Exposure controls

	be highly effective in protecting workers and will typically be i The basic types of engineering controls are: Process controls which involve changing the way a job activit Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilatior ventilation system must match the particular process and che Employers may need to use multiple types of controls to prev For flammable liquids and flammable gases, local exhaust ve equipment should be explosion-resistant.	selected hazard "physically" away from the worker and ventilation in can remove or dilute an air contaminant if designed properly. The mical or contaminant in use. vent employee overexposure. initilation or a process enclosure ventilation system may be require g "escape" velocities which, in turn, determine the "capture velociti	ection. that strategically e design of a d. Ventilation
	Type of Contaminant:		Air Speed:
	solvent, vapours, degreasing etc., evaporating from tank (ir	n still air).	0.25-0.5 m/s (50-100 f/min.)
	aerosols, fumes from pouring operations, intermittent conta plating acid fumes, pickling (released at low velocity into zo	ainer filling, low speed conveyer transfers, welding, spray drift, one of active generation)	0.5-1 m/s (100-200 f/min.)
	direct spray, spray painting in shallow booths, drum filling, o generation into zone of rapid air motion)	conveyer loading, crusher dusts, gas discharge (active	1-2.5 m/s (200-500 f/min.)
Appropriate engineering	Within each range the appropriate value depends on:		
controls	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.	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		
	with the square of distance from the extraction point (in simpl accordingly, after reference to distance from the contaminatin 1-2 m/s (200-400 f/min.) for extraction of solvents generated considerations, producing performance deficits within the ext factors of 10 or more when extraction systems are installed o . Adequate ventilation is typically taken to be that which limits room or enclosure containing the dangerous substance. . Ventilation for plant and machinery is normally considered a potentially be present to no more than 25% of the LEL. Howe safeguards are provided to prevent the formation of a hazard shutdown of the process might be used together with maintai turbine enclosures. . Temporary exhaust ventilation systems may be provided for or other confined spaces or in an emergency after a release. atmosphere should be continuously monitored to ensure that	e away from the opening of a simple extraction pipe. Velocity gene e cases). Therefore the air speed at the extraction point should be ig source. The air velocity at the extraction fan, for example, should in a tank 2 meters distant from the extraction point. Other mechanic raction apparatus, make it essential that theoretical air velocities a ir used. It has a concentration to no more than 25% of the LEL within adequate if it limits the average concentration of any dangerous suf- ver, an increase up to a maximum 50% LEL can be acceptable wf ious explosive atmosphere. For example, gas detectors linked to e ning or increasing the exhaust ventilation on solvent evaporating of ron-routine higher-risk activities, such as cleaning, repair or main The work procedures for such activities should be carefully consid- ventilation is adequate and the area remains safe. Where workers is the dangerous substance does not exceed 10% of the LEL (irresp	e adjusted, d be a minimum of ical re multiplied by h the building, bstance that might nere additional mergency ovens and gas tenance in tanks lered The s will enter the

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Individual protection measures, such as personal protective equipment	
Eye and face protection	 Safety glasses with side shields. Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] 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].
Skin protection	See Hand protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safely foctivear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygeine is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: othernical resistance of glove material, glove thickness and edve thickness and edve thickness and When only brief contact is expected, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, ASIN2S 2161.10.1 or national equivalent). When only brief contact is expected, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to the N374, ASIN2S 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a
Body protection	See Other protection below
Other protection	 Overalls. PVC Apron. PVC protective suit may be required if exposure severe. Eyewash unit. Ensure there is ready access to a safety shower. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static 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.

Ansell Glove Selection

Respiratory protection

Glove — In order of recommendation
AlphaTec 02-100
MICROFLEX® 63-864
MICROFLEX® Diamond Grip® MF-300
AlphaTec® Solvex® 37-185
AlphaTec® 38-612
AlphaTec® 58-008

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	Half-Face	Full-Face	Powered Air
Protection Factor	Respirator	Respirator	Respirator
up to 5 x ES	Air-line*	A-2	A-PAPR-2 ^

AlphaTec® 79-700		up to 10 x ES	-	A-3	-
AlphaTec® Solvex® 37-675		10+ x ES	-	Air-line**	-
TouchNTuff® 83-500	*	- Continuous Flow: ** - Co	ntinuous-flow or pos	sitive pressure dema	und
DermaShield™ 73-711		 * - Continuous Flow; ** - Continuous-flow or positive pressure demand ^ - Full-face 			

The suggested gloves for use should be confirmed with the glove supplier.

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

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

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Yellow liquid with slightly characteristic odour, does not mix in water.		
Physical state	Liquid	Relative density (Water = 1)	1-1.2
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	~3.0	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	>78	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	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	Immiscible	pH as a solution (1%)	Not Applicable
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 e	ffects
Inhaled	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. The most common signs of inhalation overexposure to ethanol, in animals, include ataxia, incoordination and drowsiness for those surviving narcosis. The narcotic dose for rats, after 2 hours of exposure, is 19260 ppm. Acute effects from inhalation of high concentrations of vapour are pulmonary irritation, including coughing, with nausea; central nervous system depression - characterised by headache and dizziness, increased reaction time, fatigue and loss of co-ordination Limited evidence or practical experience suggests that the material may produce irritation of the respiratory system, in a significant number of individuals, following inhalation. In contrast to most organs, the lung is able to respond to a chemical insult by first removing or neutralising the

	irritant and then repairing the damage. The repair process, which initially evolved to protect mammalian lungs from foreign matter and antigens, may however, produce further lung damage resulting in the impairment of gas exchange, the primary function of the lungs. Respiratory tract irritation often results in an inflammatory response involving the recruitment and activation of many cell types, mainly derived from the vascular system.		
	Accidental ingestion of t	he material may be damaging to the health of th yl alcohol, "alcohol") may produce nausea, vom	e individual. iting, bleeding from the digestive tract, abdominal pain, and diarrhoea.
	Blood concentration	Effects	
	<1.5 g/L	Mild: impaired vision, co-ordination and reaction time; emotional instability	
Ingestion	1.5-3.0 g/L	Moderate: Slurred speech, confusion, inco-ordination, emotional instability, disturbances in perception and senses, possible blackouts, and impaired objective performance in standardized tests. Possible double vision, flushing, fast heart rate, sweating and incontinence. Slow breathing may occur rarely and fast breathing may develop in cases of metabolic acidosis, low blood sugar and low blood potassium. Central nervous system depression may progress to coma.	
	3-5 g/L	Severe: cold clammy skin, low body temperature and low blood pressure. Atrial fibrillation and heart block have been reported. Depression of breathing may occur, respiratory failure may follow serious poisoning, choking on vomit may result in lung inflammation and swelling. Convulsions due to severe low blood sugar may also occur. Acute liver inflammation may develop.	
Skin Contact	 produces moderate produces significant being present twent Skin irritation may also b dermatitis is often chara thickening of the epiderr intracellular oedema of t Open cuts, abraded or in Entry into the blood-stre 	y-four hours or more after the end of the exposu- pe present after prolonged or repeated exposure cterised by skin redness (erythema) and swellin nis. At the microscopic level there may be interc he epidermis. rritated skin should not be exposed to this mater am through, for example, cuts, abrasions, punct	r of individuals following direct contact, and/or te healthy intact skin of animals (for up to four hours), such inflammation tre period. e; this may result in a form of contact dermatitis (nonallergic). The g (oedema) which may progress to blistering (vesiculation), scaling and tellular oedema of the spongy layer of the skin (spongiosis) and tial ure wounds or lesions, may produce systemic injury with harmful effects.
Eye	Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. 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. 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 conjunctivit(s); temporary impairment of vision and/or other transient eye damage/ulceration may occur.		
	Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals. Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance who are likely to become hyper-responsive. Substances than can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing air-way hyper-responsiveness. The latter substances are not classified as asthmagens or respiratory sensitisers Where this is not possible the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance.		
Chronic	 There is sufficient evidence to provide a strong presumption that human exposure to the material may result in impaired fertility on the basis of: - clear evidence in animal studies of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary non-specific consequence of other toxic effects. There is sufficient evidence to provide a strong presumption that human exposure to the material may result in developmental toxicity, generally on the basis of: clear results in appropriate animal studies where effects have been observed in the absence of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not secondary non-specific consequences of the other toxic effects. Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems. 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). 		
	I		Continued

(1) 8	oehncke W.H., & H.Gall, Clinical & Experimental Allergy, 26, 1089-1091, 1996
(1) E	Oenncke W.H., & H.Gall, Clinical & Experimental Allerdy, 26, 1089-1091, 1996

ZipBond Universal - dental adhesive	TOXICITY	IRRITATION	
	Not Available	Not Available	
	тохісіту	IRRITATION	
ethanol	Dermal (rabbit) LD50: 17100 mg/kg ^[1]	Eye (rabbit): 500 mg SEVERE	
	Inhalation(Rat) LC50: 64000 ppm4h ^[2]	Eye (rabbit):100mg/24hr-moderate	
	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]	
Legend:		nces - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise	

ETHANOL	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 the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.		
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	×
Respiratory or Skin sensitisation	✓	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
			t available or does not fill the criteria for classification to make classification

SECTION 12 Ecological information

Toxicity

Value	Source
Not Available	Not Available
Value	Source
275mg/l	2
2mg/l	4
<0.001mg/L	4
42mg/l	4
<0.001mg/L	4
	cal Information - Aquatic Toxicity 4. L (Japan) - Bioconcentration Data 7. M

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)

Bioaccumulative potential

Ingredient	Bioaccumulation
ethanol	LOW (LogKOW = -0.31)
Mobility in soil	
Mobility in soil Ingredient	Mobility

SECTION 13 Disposal considerations

Waste treatment methods

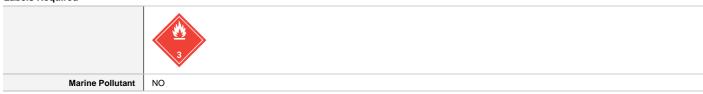
Product / Packaging disposal

Continued...

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



Shipping container and transport vehicle placarding and labeling may vary from the below information. Products that are regulated for transport will be packaged and marked as Dangerous Goods in Limited Quantities according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.

Land transport (DOT)

14.1. UN number or ID number	1170		
14.2. UN proper shipping name	Ethanol or Ethyl alcohol; Ethanol solutions or Ethyl alcohol solutions		
14.3. Transport hazard class(es)	Class Subsidiary Hazard		
14.4. Packing group	I		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Hazard Label Special provisions	3 24, IB2, T4, TP1	

Air transport (ICAO-IATA / DGR)

14.1. UN number	1170			
14.2. UN proper shipping name	Ethanol or Ethanol. solution			
	ICAO/IATA Class	3		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard			
01400(00)	ERG Code	3L		
14.4. Packing group	II			
14.5. Environmental hazard	Not Applicable			
	Special provisions		A3 A58 A180	
	Cargo Only Packing Instructions		364	
	Cargo Only Maximum Qty / Pack 60 L			
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		353	
user	Passenger and Cargo Maximum Qty / Pack		5 L	
	Passenger and Cargo Limited Quantity Packing Instructions		Y341	
	Passenger and Cargo Limited Maximum Qty / Pack		1 L	

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1170	
14.2. UN proper shipping name	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	
14.3. Transport hazard class(es)	IMDG Class 3 IMDG Subsidiary Hazard Not Applicable	
14.4. Packing group	II	
14.5 Environmental hazard	Not Applicable	

14.6. Special precautions for	EMS Number	F-E, S-D		
user	Special provisions	144		
	Limited Quantities	1L		
4.7.1. Transport in bulk accor Not Applicable 4.7.2. Transport in bulk in acc Product name ethanol	-	IARPOL and the IBC code DL Annex V and the IMSBC Code		
4.7.3. Transport in bulk in acc	cordance with the IGC	Code		
Product name	Ship Type			
ethanol	Not Available			
ECTION 15 Regulatory info		slation specific for the substance or mixture		
ethanol is found on the following	•			
US - Massachusetts - Right To Kno				
US DOE Temporary Emergency Ex				
US NIOSH Recommended Exposure Limits (RELs) US OSHA Permissible Exposure Limits (PELs) Table Z-1				
US Toxic Substances Control Act (1		ance Inventory		
Not Applicable	tion			
Additional Regulatory Informat Not Applicable ederal Regulations	Reauthorization Act o	f 1986 (SARA)		
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie	Reauthorization Act o	f 1986 (SARA)	Vez	
Not Applicable ederal Regulations superfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui	Reauthorization Act o	f 1986 (SARA)	Yes	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure	Reauthorization Act o	f 1986 (SARA)	No	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive	Reauthorization Act o	f 1986 (SARA)	No No	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating	Reauthorization Act o	f 1986 (SARA)	No No No	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating Pyrophoric (Liquid or Solid)	Reauthorization Act o	f 1986 (SARA)	No No No No	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating Pyrophoric (Liquid or Solid) Pyrophoric Gas	Reauthorization Act o	f 1986 (SARA)	No No No No No	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating Pyrophoric (Liquid or Solid) Pyrophoric Gas Corrosive to metal	Reauthorization Act o	f 1986 (SARA)	No No No No No No	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating Pyrophoric (Liquid or Solid) Pyrophoric Gas Corrosive to metal Oxidizer (Liquid, Solid or Gas)	Reauthorization Act o	f 1986 (SARA)	No No No No No No No No	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating Pyrophoric (Liquid or Solid) Pyrophoric Gas Corrosive to metal Oxidizer (Liquid, Solid or Gas) Organic Peroxide	Reauthorization Act o	f 1986 (SARA)	No	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating Pyrophoric (Liquid or Solid) Pyrophoric Gas Corrosive to metal Oxidizer (Liquid, Solid or Gas) Organic Peroxide Self-reactive	Reauthorization Act o	f 1986 (SARA)	No	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating Pyrophoric (Liquid or Solid) Pyrophoric Gas Corrosive to metal Oxidizer (Liquid, Solid or Gas) Organic Peroxide Self-reactive In contact with water emits flamma	Reauthorization Act o	f 1986 (SARA)	No	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating Pyrophoric (Liquid or Solid) Pyrophoric Gas Corrosive to metal Oxidizer (Liquid, Solid or Gas) Organic Peroxide Self-reactive In contact with water emits flammal Combustible Dust	Reauthorization Act o	f 1986 (SARA)	No	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating Pyrophoric (Liquid or Solid) Pyrophoric Gas Corrosive to metal Oxidizer (Liquid, Solid or Gas) Organic Peroxide Self-reactive In contact with water emits flammal Combustible Dust Carcinogenicity	Reauthorization Act o es ids, or Solids)	f 1986 (SARA)	No	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating Pyrophoric (Liquid or Solid) Pyrophoric (Liquid or Solid) Pyrophoric Gas Corrosive to metal Oxidizer (Liquid, Solid or Gas) Organic Peroxide Self-reactive In contact with water emits flammal Combustible Dust Carcinogenicity Acute toxicity (any route of exposure	Reauthorization Act o es ids, or Solids)	f 1986 (SARA)	No	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating Pyrophoric (Liquid or Solid) Pyrophoric Gas Corrosive to metal Oxidizer (Liquid, Solid or Gas) Organic Peroxide Self-reactive In contact with water emits flammal Combustible Dust Carcinogenicity Acute toxicity (any route of exposur Reproductive toxicity	Reauthorization Act o es ids, or Solids)	f 1986 (SARA)	No	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating Pyrophoric (Liquid or Solid) Pyrophoric (Liquid or Solid) Pyrophoric Gas Corrosive to metal Oxidizer (Liquid, Solid or Gas) Organic Peroxide Self-reactive In contact with water emits flammal Combustible Dust Carcinogenicity Acute toxicity (any route of exposur Reproductive toxicity Skin Corrosion or Irritation	Reauthorization Act o es ids, or Solids)	f 1986 (SARA)	No No	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating Pyrophoric (Liquid or Solid) Pyrophoric (Liquid or Solid) Pyrophoric Gas Corrosive to metal Oxidizer (Liquid, Solid or Gas) Organic Peroxide Self-reactive In contact with water emits flammal Combustible Dust Carcinogenicity Acute toxicity (any route of exposur Reproductive toxicity Skin Corrosion or Irritation Respiratory or Skin Sensitization	Reauthorization Act o	f 1986 (SARA)	No Yes Yes Yes	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating Pyrophoric (Liquid or Solid) Pyrophoric Gas Corrosive to metal Oxidizer (Liquid, Solid or Gas) Organic Peroxide Self-reactive In contact with water emits flammal Combustible Dust Carcinogenicity Acute toxicity (any route of exposur Reproductive toxicity Skin Corrosion or Irritation Respiratory or Skin Sensitization Serious eye damage or eye irritatio	Reauthorization Act o	f 1986 (SARA)	No Yes Yes Yes Yes Yes Yes Yes Yes Yes	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating Pyrophoric (Liquid or Solid) Pyrophoric (Liquid or Solid) Pyrophoric Gas Corrosive to metal Oxidizer (Liquid, Solid or Gas) Organic Peroxide Self-reactive In contact with water emits flammal Combustible Dust Carcinogenicity Acute toxicity (any route of exposur Reproductive toxicity Skin Corrosion or Irritation Respiratory or Skin Sensitization Serious eye damage or eye irritatio Specific target organ toxicity (single	Reauthorization Act o	f 1986 (SARA)	No Yes Yes Yes No	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating Pyrophoric (Liquid or Solid) Pyrophoric Gas Corrosive to metal Oxidizer (Liquid, Solid or Gas) Organic Peroxide Self-reactive In contact with water emits flammal Combustible Dust Carcinogenicity Acute toxicity (any route of exposur Reproductive toxicity Skin Corrosion or Irritation Respiratory or Skin Sensitization Serious eye damage or eye irritatio Specific target organ toxicity (single Aspiration Hazard	Reauthorization Act o	f 1986 (SARA)	No Yes Yes No No	
Not Applicable ederal Regulations uperfund Amendments and R Section 311/312 hazard categorie Flammable (Gases, Aerosols, Liqui Gas under pressure Explosive Self-heating Pyrophoric (Liquid or Solid) Pyrophoric Gas Corrosive to metal Oxidizer (Liquid, Solid or Gas) Organic Peroxide	Reauthorization Act o	f 1986 (SARA)	No Yes Yes Yes No	

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

None Reported

State Regulations

US. California Proposition 65 None Reported

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (ethanol)	
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	29/08/2023
Initial Date	29/08/2023

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by SDI Limited 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
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- 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

The information contained in the Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.

Other information: Prepared by: SDI Limited 3-15 Brunsdon Street, Bayswater Victoria, 3153, Australia Phone Number: +61 3 8727 7111 Department issuing SDS: Research and Development

Contact: Technical Director