

JRP Distribution Ltd

Version No: 3.7

Safety data sheet according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Issue Date: 10/25/2023 Print Date: 10/25/2023 S.REACH.GB.EN

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

1.1.	Product	Identifier
1.1.	FIGUUCE	luentiner

Product name	Clear Silicone
Synonyms	31310 (Clear Silicone Sealant & Adhesive) Acetoxy
Other means of identification	Not Available

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

Relevant identified uses	Sealant and adhesives.
Uses advised against	No specific uses advised against are identified.

1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	JRP Distribution Ltd
Address	Unit 10A, Business Park, City Fields Way Tangmere PO20 2FT United Kingdom
Telephone	+44 1903 750355
Fax	Not Available
Website	www.jbweld.com
Email	info@jbweld.com

1.4. Emergency telephone number

Association / Organisation	Department of Health & Social Care (DHSC)
Emergency telephone numbers	112
Other emergency telephone numbers	Not Available

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567 [1]	H304 - Aspiration Hazard Category 1, H314 - Skin Corrosion/Irritation Category 1B, H318 - Serious Eye Damage/Eye Irritation Category 1, H373 - Specific Target Organ Toxicity - Repeated Exposure Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

2.2. Label elements

Hazard pictogram(s)	

Signal word	Danger
Hazard statement(s)	

H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.

Supplementary statement(s)

EUH066	Repeated exposure may cause skin dryness or cracking.

Precautionary statement(s) Prevention

P260	Do not breathe mist/vapours/spray.
P264	Wash all exposed external body areas thoroughly after handling.
P280	Wear protective gloves, protective clothing, eye protection and face protection.

Precautionary statement(s) Response

Precautionary statement(s) Response	
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304+P340	IF INHALED: Remove person to tresh air and keep comtortable for breathing.

Precautionary statement(s) Storage

P405 Store locked up.

Precautionary statement(s) Disposal

	• •	•
	P501	Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

2.3. Other hazards

Cumulative effects may result following exposure*.

Eye contact may produce serious damage*.

distillates, petroleum, middle,	Determined to have endocrine-disrupting properties according to Europe Regulation (EU) 528/2012, Europe Regulation (EU) 2017/2100, and
hydrotreated	Europe Regulation (EU) 2018/605

SECTION 3 Composition / information on ingredients

3.1.Substances

See 'Composition on ingredients' in Section 3.2

3.2.Mixtures

1. CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	SCL / M-Factor	Nanoform Particle Characteristics
1. 17689-77-9 2.241-677-4 3.Not Available 4.Not Available	1-10	ethyltriacetoxysilane	Acute Tox. 4, Skin Corrosion/Irritation Category 1B; H302, H314 ^[3]	Not Available	Not Available
1. 4253-34-3 2.224-221-9 3.Not Available 4.Not Available	1-5	methyltriacetoxysilane	Acute Tox. 4, Skin Corrosion/Irritation Category 1B; H302, H314, EUH014 ^[3]	Not Available	Not Available
1. 70131-67-8 2.Not Available 3.Not Available 4.Not Available	1-5	dimethylsiloxane. hydroxy- terminated	Not Classified [3]	Not Available	Not Available
1. 7631-86-9 2.231-545-4 3.Not Available 4.Not Available	1-5	silica amorphous	Specific Target Organ Toxicity - Repeated Exposure Category 1; H372, EUH210 ^[3]	Not Available	Not Available
1. 64742-46-7. 2.265-148-2 3.649-221-00-X 4.Not Available	1-10	distillates, petroleum, middle, hydrotreated [e]	Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Aspiration Hazard Category 1; H336, H304, EUH066 ^[1]	Not Available	Not Available
Legend:	 Classified by Chemwatch; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567; 3. Classification drawn from C&L * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties 				

SECTION 4 First aid measures

4.1. Description of first aid mea	asures If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with 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. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
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Page 3 of 13

Clear Silicone

Skin Contact	 If skin or hair contact occurs: Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor.
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.
Ingestion	 For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. 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. Transport to hospital or doctor without delay. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3. Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

SECTION 5 Firefighting measures

5.1. Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).

5.2. 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
5.3. Advice for firefighters	
Fire Fighting Alert Fire Department and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. 	
	When silica dust is dispersed in air, firefighters should wear inhalation protection as hazardous substances from the fire may be adsorbed on the silica particles.

	When heated to extreme temperatures, (>1700 deg.C) amorphous silica can fuse.
	Combustible. Will burn if ignited.
	Combustion products include:
	carbon monoxide (CO)
Fire/Explosion Hazard	carbon dioxide (CO2)
	silicon dioxide (SiO2)
	other pyrolysis products typical of burning organic material.
	May emit poisonous fumes.
	May emit corrosive fumes.
	CARE: Water in contact with hot liquid may cause foaming and a steam explosion with wide scattering of hot oil and possible severe burns.
	Foaming may cause overflow of containers and may result in possible fire.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

Minor Spills	 Clean up all spills immediately. Avoid contact with skin and eyes. Wear impervious gloves and safety goggles.
Major Spills	 Minor hazard. Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard.

6.4. Reference to other sections

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

SECTION 7 Handling and storage

7.1. Precautions for safe handl	ing
Safe handling	The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid. 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. Electrostatic discharge may be generated during pumping - this may result in fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec). Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area.
Fire and explosion protection	See section 5
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area.

7.2. Conditions for safe storage, including any incompatibilities

Suitable container	 Lined metal can, lined metal pail/ can. Plastic pail. Polyliner drum. Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. 	
Storage incompatibility	 Low molecular weight alkanes are a type of chemical compounds that can be found in gases or liquids. These alkanes: Can cause a dangerous reaction with strong oxidizers, chlorine, chlorine dioxide, and dioxygenyl tetrafluoroborate when there is oxygen and heat present. Are incompatible with halogens. The substance may be or contains a 'metalloid' The following elements are considered to be metalloids; boron, silicon, germanium, arsenic, antimony, tellurium and (possibly) polonium The electronegativities and ionisation energies of the metalloids are between those of the metals and nonmetals, so the metalloids exhibit characteristics of both classes. The reactivity of the metalloids depends on the element with which they are reacting. For example, boron acts as a nonmetal when reacting with sodium yet as a metal when reacting with fluorine. Acetic acid: vapours forms explosive mixtures with air (above 39 C.) reacts violently with bases such as carbonates and hydroxides (giving off large quantities of heat), oxidisers, organic amines, acetaldehyde, potassium tert-butoxide reacts (sometimes violently), with strong acids, aliphatic amines, alkanolamines, alkylene oxides, epichlorohydrin, acetic anhydride, 2-aminoethanol, ammonia, ammonium nitrate, bromine pentafluoride, chlorosulfonic acid, chromic acid, chromium trioxide, ethylenediamine, ethylene innine, hydrogen peroxide, isocyanates, oleum, perchloric acid, permanganates, phosphorus isocyanate, phosphorus trichloride, sodium peroxide, xylene attacks cast iron, stainless stelel and other metals, forming flammable hydrogen gas attacks cast iron, stainless stelel and other metals, forming flammable hydrogen gas treact with hydrofluoric acid to produce explosive xenon trioxide reacts exothermically with oxygen diffuoride, and explosively with chlorine trifluoride (these halogenated materials are not commonplace industrial material	
Hazard categories in accordance with Regulation (EC) No 1272/2008	Not Available	
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available	

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

8.1. Control parameters

Ingredient

	Exposure Pattern Worker	Compartment
ethyltriacetoxysilane	Dermal 11.39 mg/kg bw/day (Systemic, Chronic) Inhalation 80.33 mg/m ³ (Systemic, Chronic) Inhalation 32.5 mg/m ³ (Local, Chronic) Inhalation 32.5 mg/m ³ (Local, Acute) Dermal 5.7 mg/kg bw/day (Systemic, Chronic) * Inhalation 19.81 mg/m ³ (Systemic, Chronic) * Oral 5.7 mg/kg bw/day (Systemic, Chronic) * Inhalation 6.5 mg/m ³ (Local, Chronic) *	0.023 mg/L (Water (Fresh)) 1.7 mg/L (Water - Intermittent release) 0.002 mg/L (Water (Marine)) 0.023 mg/kg sediment dw (Sediment (Fresh Water)) 0.002 mg/kg sediment dw (Sediment (Marine)) 0.006 mg/kg soil dw (Soil) 1 mg/L (STP)
methyltriacetoxysilane	Inhalation 31 mg/m ³ (Local, Chronic) Inhalation 61 mg/m ³ (Local, Acute) Inhalation 31 mg/m ³ (Local, Chronic) * Inhalation 61 mg/m ³ (Local, Acute) *	 4.8 mg/kg sediment dw (Sediment (Fresh Water)) 0.48 mg/kg sediment dw (Sediment (Marine)) 0.19 mg/kg soil dw (Soil) 6.9 mg/L (STP)
silica amorphous	Inhalation 0.3 mg/m³ (Local, Chronic) Inhalation 15 mg/m³ (Local, Acute) Oral 3.29 mg/kg bw/day (Systemic, Chronic) *	Not Available
distillates, petroleum, middle, hydrotreated	Dermal 2.91 mg/kg bw/day (Systemic, Chronic) Inhalation 16.4 mg/m ³ (Systemic, Chronic) Inhalation 5 002.67 mg/m ³ (Systemic, Acute) Dermal 1.25 mg/kg bw/day (Systemic, Chronic) * Inhalation 4.85 mg/m ³ (Systemic, Chronic) * Oral 1.25 mg/kg bw/day (Systemic, Chronic) * Inhalation 3 001.6 mg/m ³ (Systemic, Acute) *	17 g/kg food (Oral)

* Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
UK Workplace Exposure Limits (WELs).	silica amorphous	Diatomaceous earth, natural, respirable dust	1.2 mg/m3	Not Available	Not Available	Not Available
UK Workplace Exposure Limits (WELs).	silica amorphous	Silica, fused respirable dust	0.08 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1 TEEL-2			TEEL-3	
methyltriacetoxysilane	5 mg/m3 35 mg/m3			250 mg/m3	
dimethylsiloxane, hydroxy- terminated	190 mg/m3	2,100 mg/m3		13,000 mg/m3	
silica amorphous	18 mg/m3	200 mg/m3		1,200 mg/m3	
silica amorphous	18 mg/m3	100 mg/m3		630 mg/m3	
silica amorphous	120 mg/m3	1,300 mg/m3		7,900 mg/m3	
silica amorphous	45 mg/m3 500 mg/m3			3,000 mg/m3	
silica amorphous	18 mg/m3 740 mg/m3			4,500 mg/m3	
distillates, petroleum, middle, hydrotreated	1,100 mg/m3	1,800 mg/m3		40,000 mg/m3	
Ingredient	Original IDLH		Revised IDLH		
ethyltriacetoxysilane	Not Available		Not Available	ailable	
methyltriacetoxysilane	Not Available	Not Available		Not Available	
dimethylsiloxane, hydroxy- terminated	Not Available		Not Available		
silica amorphous	3,000 mg/m3		Not Available		
distillates, petroleum, middle, hydrotreated	2,500 mg/m3		Not Available		

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk.
8.2.2. Individual protection measures, such as personal protective equipment	
Eye and face protection	 Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent] Full face shield may be required for supplementary but never for primary protection of eyes. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.
Skin protection	See Hand protection below

Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber
Body protection	See Other protection below
Other protection	 Overalls. P.V.C apron. Barrier cream.

Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

When heated to temperatures above 150C (300F) in the presence of air, product can form formaldehyde vapors. Physical and health hazard information is readily available on the Material Safety Data Sheet. When heated to temperatures above 150C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose throat, skin and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

8.2.3. Environmental exposure controls

See section 12

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear Paste		
Physical state	Free-flowing Paste	Relative density (Water = 1)	1.00-1.02
Odor	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available		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 Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

9.2. Other information

Not Available

SECTION 10 Stability and reactivity

10.1.Reactivity	See section 7.2
10.2. Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2

Page 7 of 13

Clear Silicone

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10.5. Incompatible materials	See section 7.2				
10.6. Hazardous decomposition products	See section 5.3				
ECTION 11 Toxicological i	nformation				
1.1. Information on toxicologi	cal effects				
Inhaled	Nerve damage can be caused by some non-ring hydro	Inhalation of oil droplets or aerosols may cause discomfort and may produce chemical inflammation of the lungs. Nerve damage can be caused by some non-ring hydrocarbons. Symptoms are temporary, and include weakness, tremors, increased saliva, some convulsions, excessive tears with discolouration and inco-ordination lasting up to 24 hours.			
Ingestion	The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion. Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence. Isoparafinic hydrocarbons cause temporary lethargy, weakness, inco-ordination and diarrhoea.				
Skin Contact	The material can produce chemical burns following direct contact with the skin. Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Skin exposure to isoparaffins may produce slight to moderate irritation in animals and humans. Rare sensitisation reactions in humans have occurred. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.				
Eye	The material can produce chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating. If applied to the eyes, this material causes severe eye damage. Instillation of isoparaffins into rabbit eyes produces only slight irritation.				
Chronic	Repeated or prolonged exposure to corrosives may re (rarely) of the jaw. Bronchial irritation, with cough, and Toxic: danger of serious damage to health by prolonge This material can cause serious damage if one is expo produce severe defects. Amorphous silicas generally are less hazardous than cooling. Inhalation of dusts containing crystalline silica Soluble silicates do not exhibit sensitizing potential. Te mutations or birth defects. There has been some concern that this material can of	I frequent attac ed exposure thi osed to it for lo crystalline silica as may lead to esting in bacter	ks of bronchial pneumonia may ough inhalation, in contact with ig periods. It can be assumed the is, but the former can be conve silicosis, a disabling lung diseas al and animal experiments have	ensue. skin and if swallowed. hat it contains a substance which can rted to the latter on heating and subsequent e that may take years to develop. e not shown any evidence of them causing	
Clear Silicone			IRRITATION		
	Not Available		Not Available		
	ΤΟΧΙΟΙΤΥ			IRRITATION	
ethyltriacetoxysilane	Oral (Rat) LD50: 1460 mg/kg ^[1]			Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION			
methyltriacetoxysilane	Oral (Rat) LD50: 1550 mg/kg ^[1]	-	effect observed (irreversible da	mage)[1]	
			e effect observed (corrosive) ^[1]		
	ΤΟΧΙΟΙΤΥ			IRRITATION	
dimethylsiloxane, hydroxy-	Dermal (rabbit) LD50: >2000 mg/kg ^[2]			Not Available	
terminated	Oral (Rat) LD50: >5000 mg/kg ^[2]				
	ΤΟΧΙΟΙΤΥ		IRRITATION		
				racel	
silica amorphous		dermal (rat) LD50: >2000 mg/kg ^[1] Eye (rabbit): non-irritating **			
silica amorphous	Inhalation(Rat) I (:50: 50.0920.84 mg/l4bl 1	Eve: no adverse effect observe	ed (not irritating) ^[1]		
	Inhalation(Rat) LC50: >0.09<0.84 mg/l4h ^[1] Oral (Rat) LD50: >1000 mg/kg ^[1]		Eye: no adverse effect observe Skin (rabbit): non-irritating *	ed (not irritating) ^[1]	

Skin: no adverse effect observed (not irritating)^[1]

 distillates, petroleum, middle, hydrotreated
 TOXICITY
 IRRITATION

 Dermal (rabbit) LD50: >2000 mg/kg^[2]
 Eye: no adverse effect observed (not irritating)^[1]

 Inhalation(Rat) LC50: 1.72 mg/4h^[1]
 Skin: adverse effect observed (irritating)^[1]

 Oral (Rat) LD50: >5000 mg/kg^[2]
 Vertical effect observed (irritating)^[1]

Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obta specified data extracted from RTECS - Register of Toxic Effect of chemical Substances	ined from manufacturer's SDS. Unless otherwise				
ETHYLTRIACETOXYSILANE	The material may produce severe irritation to the eye causing pronounced inflammation. Re produce conjunctivitis. No data of toxicological significance identified in literature search.	speated or prolonged exposure to irritants may				
METHYLTRIACETOXYSILANE	The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. Clinical signs of acute methyltriacetoxysilane poisoning in animals include decreased body weight and food intake, labored breathing, rales, red stains around the snout and extremities, salivation, excessive tear (sometimes coloured) production, lethargy, irregular gait, hunched posture, red urination, black/brown anogenital staining, paleness, and low body temperature. Autopsy showed multiple abnormalities of the stomach. Methyltriacetoxysilane is severely irritating and corrosive to the skin, and corrosive to the eyes of animals; as it is broken down by water to acetic acid, it is likely to irritate the airway. Tests on laboratory cells have not shown methyltriacetoxysilane to cause mutations or chromosomal aberrations. Prolonged or repeated exposure results in muscle imbalance, increase in blood cholinesterase activity, decrease in albumin and decreased growth but no reproductive or foetal toxicity, according to animal testing.					
DIMETHYLSILOXANE, HYDROXY-TERMINATED	* [Mobay Chemical Corp] **[GE] Siloxanes may impair liver and hormonal function, as well as the lung and kidney. They hav They may potentially cause cancer (tumours of the womb in females) and may cause impair					
SILICA AMORPHOUS	Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in ex effects were reversible. [PATTYS] The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.	perimental animals; in some experiments these				
DISTILLATES, PETROLEUM, MIDDLE, HYDROTREATED	typical for isoparaffinic hydrocarbons: isoparaffinic hydrocarbon:					
Clear Silicone & SILICA AMORPHOUS	For silica amorphous: Derived No Adverse Effects Level (NOAEL) in the range of 1000 mg/kg/d. In humans, synthetic amorphous silica (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. When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated.					
Clear Silicone & DISTILLATES, PETROLEUM, MIDDLE, HYDROTREATED	Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the ga n-paraffins is inversely proportional to the carbon chain length, with little absorption above to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo. The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various hydrocarbons are ingested in association with fats in the diet. The materials included in the Lubricating Base Oils category are related from both process. The potential toxicity of a specific distillate base oil is inversely related to the severity or ext • The adverse effects of these materials are associated with undesirable components, and • The levels of the undesirable components are inversely related to the degree of processing • Distillate base oils receiving the same degree or extent of processing will have similar toxic • The potential toxicity of residual base oils is independent of the degree of processing the of • The reproductive and developmental toxicity of the distillate base oils is inversely related to Unrefined & mildly refined distillate base oils contain the highest levels of undesirable compo- molecules and have shown the highest potential cancer-causing and mutation-causing actin are produced from unrefined and mildly refined oils by removing or transforming undesirable refined base oils, the highly and severely refined distillate base oils have a smaller range of low mammalian toxicity. For highly and severely refined distillate base oils: In animal studies, the acute, oral, semilethal dose is >5g/kg body weight and the semilethal semilethal concentration for inhalation is 2.18 to >4 mg/L. The materials have varied from "n skin and eye irritation.	C30. With respect to the carbon chain lengths likely to paraffins. us species. In many cases, the hydrophobic and physical-chemical perspectives; ent of processing the oil has undergone, since: g; cities; wil receives. to the degree of processing. to nents, have the largest variation of hydrocarbon vities. Highly and severely refined distillate base oils e components. In comparison to unrefined and mildly hydrocarbon molecules and have demonstrated very dose by skin contact is >2g/kg body weight. The				
Clear Silicone & ETHYLTRIACETOXYSILANE & METHYLTRIACETOXYSILANE	Asthma-like symptoms may continue for months or even years after exposure to the materi known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to criteria for diagnosing RADS include the absence of previous airways disease in a non-atop asthma-like symptoms within minutes to hours of a documented exposure to the irritant.	o high levels of highly irritating compound. Main				
ETHYLTRIACETOXYSILANE & METHYLTRIACETOXYSILANE	The material may produce respiratory tract irritation, and result in damage to the lung incluc The material may cause skin irritation after prolonged or repeated exposure and may produ vesicles, scaling and thickening of the skin.	5 5				
Acute Toxicity	X Carcinogenicity	×				
Skin Irritation/Corrosion	✓ Reproductivity	×				
Serious Eye Damage/Irritation	✓ STOT - Single Exposure	×				
Respiratory or Skin sensitisation	X STOT - Repeated Exposure	*				
	× Aspiration Hazard	1				

Legend:

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

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

Many chemicals may mimic or interfere with the body s hormones, known as the endocrine system. Endocrine disruptors are chemicals that can interfere with endocrine (or hormonal) systems.

Endocrine disruptors interfere with the synthesis, secretion, transport, binding, action, or elimination of natural hormones in the body. Any system in the body controlled by hormones can be derailed by hormone disruptors. Specifically, endocrine disruptors may be associated with the development of learning disabilities, deformations of the body various cancers and sexual development problems.

Endocrine disrupting chemicals cause adverse effects in animals. But limited scientific information exists on potential health problems in humans. Because people are typically

exposed to multiple endocrine disruptors at the same time, assessing public health effects is difficult.

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

12.1. Toxicity

Clear Silicone	Endpoint		Test Duration (hr)		Species Value		Source		
Clear Shicone	Not Available Not Available			Not Available	Not Availa	ble	Not Availa	ble	
ethyltriacetoxysilane	Endpoint	Т	est Duration (hr)	Spo	ecies		Value		Source
	EC50	7	2h	Alg	ae or other aquatic plar	nts	23.03m	ng/l	2
	EC50	4	48h		stacea		62mg/l		2
ennymnaooroxyonano	EC50	9	16h	Alg	ae or other aquatic plar	nts	1200m	g/l	2
	LC50	9	16h	Fis	n		79-88n	ng/l	2
	NOEC(ECx)	5	i04h	Cru	stacea		>=10m	g/l	2
	Endpoint	Те	est Duration (hr)	Speci	es		Value		Source
	EC50	72	h	Algae	or other aquatic plants		>3.6mg/l		2
methyltriacetoxysilane	EC50	48h		Crusta	Crustacea		65mg/l	img/l 2	
	NOEC(ECx)	72h		Algae	Algae or other aquatic plants		>=3.6mg/l		2
	LC50	96h		Fish	Fish		>=79<=88m	'9<=88mg/l 2	
dimethylsiloxane, hydroxy-	Endpoint	Test Duration (hr)			Species Value			Source	
terminated	Not Available		Not Available		Not Available Not Availa		ble	Not Available	
	Endpoint	Test	Duration (hr)	Species	3		Value		Source
	EC50	72h		Algae o	Algae or other aquatic plants		14.1mg/l	14.1mg/l 2	
	EC50	48h		Crustac	Crustacea		>86mg/l		2
silica amorphous	EC50	96h		Algae o	Algae or other aquatic plants		217.576mg/l		2
	LC50	96h		Fish	Fish			j/l	2
	EC0(ECx)	24h		Crustac	Crustacea		>=10000mg	/I	1
listillates, petroleum, middle,	Endpoint	т	est Duration (hr)	Sp	Species		Value		Source
hydrotreated	NOEC(ECx)	7	'2h	Alg	ae or other aquatic plar	nts	<0.03n	ng/l	1

When released in the environment, alkanes don't undergo rapid biodegradation, because they have no functional groups (like hydroxyl or carbonyl) that are needed by most organisms in order to metabolize the compound.

However, some bacteria can metabolise some alkanes (especially those linear and short), by oxidizing the terminal carbon atom. The product is an alcohol, that could be next oxidised to an aldehyde, and finally to a carboxylic acid.

Microbial methylation plays important roles in the biogeochemical cycling of the metalloids and possibly in their detoxification. Many microorganisms (bacteria, fungi, and yeasts) and animals are now known to biomethylate arsenic, forming both volatile (e.g., methylarsines) and nonvolatile (e.g., methylarsonic acid and dimethylarsinic acid) compounds. Antimony and bismuth, also undergo biomethylation to some extent.

For Amorphous Silica: Amorphous silica is chemically and biologically inert. It is not biodegradable.

Aquatic Fate: Due to its insolubility in water there is a separation at every filtration and sedimentation process.

For Silica:

Environmental Fate: Most documentation on the fate of silica in the environment concerns dissolved silica, in the aquatic environment, regardless of origin, (man-made or natural), or structure, (crystalline or amorphous).

Terrestrial Fate: Silicon makes up 25.7% of the Earth's crust, by weight, and is the second most abundant element, being exceeded only by oxygen. Silicon is not found free in nature, but occurs chiefly as the oxide and as silicates.

DO NOT discharge into sewer or waterways.

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethyltriacetoxysilane	HIGH	HIGH
methyltriacetoxysilane	HIGH	HIGH
silica amorphous	LOW	LOW

12.3. Bioaccumulative potential

Ingredient

Ingredient	Bioaccumulation
ethyltriacetoxysilane	LOW (LogKOW = 0.7378)
methyltriacetoxysilane	LOW (LogKOW = 0.2467)
silica amorphous	LOW (LogKOW = 0.5294)

12.4. Mobility in soil

Ingredient	Mobility
ethyltriacetoxysilane	LOW (KOC = 69.91)
methyltriacetoxysilane	LOW (KOC = 35.19)
silica amorphous	LOW (KOC = 23.74)

12.5. Results of PBT and vPvB assessment

	Р	В	т	
Relevant available data	Not Available	Not Available	Not Available	
PBT	×	×	×	
vPvB	×	×	×	
PBT Criteria fulfilled?			No	
vPvB			No	

12.6. Endocrine disrupting properties

The evidence linking adverse effects to endocrine disruptors is more compelling in the environment than it is in humans. Endocrine distruptors profoundly alter reproductive physiology of ecosystems and ultimately impact entire populations. Some endocrine-disrupting chemicals are slow to break-down in the environment. That characteristic makes them potentially hazardous over long periods of time. Some well established adverse effects of endocrine disruptors in various wildlife species include; eggshell-thinning, displayed of characteristics of the opposite sex and impaired reproductive development. Other adverse changes in wildlife species that have been suggested, but not proven include; reproductive abnormalities, immune dysfunction and skeletal deformaties.

12.7. Other adverse effects

One or more ingredients within this SDS has the potential of causing ozone depletion and/or photochemical ozone creation.

SECTION 13 Disposal considerations

13.1. Waste treatment methods		
Product / Packaging disposal	 Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Authority for disposal. Bury or incinerate residue at an approved site. 	
Waste treatment options	Not Available	
Sewage disposal options	Not Available	

SECTION 14 Transport information

HAZCHEM Not Applicable

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number or ID number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard	Class	Not Applicable	
class(es)	Subsidiary Hazard	Not Applicable	
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
	Hazard identification (Ke	emler) Not Applicable	
	Classification code	Not Applicable	_
14.6. Special precautions for user	Hazard Label	Not Applicable	_
	Special provisions	Not Applicable	_
	Limited quantity	Not Applicable	_
	Tunnel Restriction Code	e Not Applicable	

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable

14.2. UN proper shipping name	Not Applicable			
	ICAO/IATA Class	Not Applicable		
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard Not Applicable			
	ERG Code Not Applicable			
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Special provisions		Not Applicable	
	Cargo Only Packing Instructions		Not Applicable	
	Cargo Only Maximum Qty / Pack		Not Applicable	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		Not Applicable	
u361	Passenger and Cargo Maximum Qty / Pack		Not Applicable	
	Passenger and Cargo Limited Quantity Packing Instructions		Not Applicable	
	Passenger and Cargo Limited Maximum Qty / Pack		Not Applicable	

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Hazard	Not Applicable Not Applicable
14.4. Packing group	Not Applicable	
14.5 Environmental hazard	Not Applicable	
	EMS Number No	t Applicable
14.6. Special precautions for user	Special provisions Not Applicable	
u301	Limited Quantities No	ot Applicable

Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	Not Applicable Not	at Applicable
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions for user	Classification code Special provisions Limited quantity Equipment required Fire cones number	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

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

Product name	Group
ethyltriacetoxysilane	Not Available
methyltriacetoxysilane	Not Available
dimethylsiloxane, hydroxy- terminated	Not Available
silica amorphous	Not Available
distillates, petroleum, middle, hydrotreated	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
ethyltriacetoxysilane	Not Available
methyltriacetoxysilane	Not Available

Product name	Ship Type
dimethylsiloxane, hydroxy- terminated	Not Available
silica amorphous	Not Available
distillates, petroleum, middle, hydrotreated	Not Available

SECTION 15 Regulatory information

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

ethyltriacetoxysilane is found on the following regulatory lists	
Not Applicable	
methyltriacetoxysilane is found on the following regulatory lists	
Not Applicable	
dimethylsiloxane, hydroxy-terminated is found on the following regulatory lists	
Not Applicable	
silica amorphous is found on the following regulatory lists	
Chemical Footprint Project - Chemicals of High Concern List	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
Great Britain GB Biocidal Active Substances	Monographs - Not Classified as Carcinogenic
Great Britain GB mandatory classification and labelling (GB MCL) technical reports	International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)
	UK Workplace Exposure Limits (WELs).
distillates, petroleum, middle, hydrotreated is found on the following regulatory lists	
Chemical Footprint Project - Chemicals of High Concern List	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
Great Britain GB mandatory classification and labelling list (GB MCL)	Monographs - Not Classified as Carcinogenic

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

Information according to 2012/18/EU (Seveso III):

Seveso Category Not Available

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (ethyltriacetoxysilane; methyltriacetoxysilane; dimethylsiloxane, hydroxy-terminated; distillates, petroleum, middle, hydrotreated)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (dimethylsiloxane, hydroxy-terminated)	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (ethyltriacetoxysilane)	
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	10/25/2023
Initial Date	03/07/2021

Full text Risk and Hazard codes

H302	Harmful if swallowed.	
H336	May cause drowsiness or dizziness.	
H372	Causes damage to organs through prolonged or repeated exposure.	

SDS Version Summary

Version	Date of Update	Sections Updated
2.7	10/24/2023	Toxicological information - Acute Health (eye), Toxicological information - Acute Health (inhaled), Toxicological information - Acute Health (skin), Toxicological information - Acute Health (swallowed), First Aid measures - Advice to Doctor, Toxicological information - Chronic Health, Hazards identification - Classification, Disposal considerations - Disposal, Exposure controls / personal protection - Engineering Control, Ecological Information - Environmental, Exposure controls / personal protection - Engineering Control, Ecological Information - Environmental, Exposure controls / personal protection - Exposure Standard, Firefighting measures - Fire Fighter (explosion hazard), Firefighting measures - Fire Fighter (fire fighting), Firefighting measures - Fire Fighter (fire fighting), Firefighting, First Aid measures - Fire Fighter (fire incompatibility), First Aid measures - First Aid (eye), First Aid measures - First Aid (inhaled), First Aid measures - First Aid (skin), First Aid measures - First Aid (swallowed), Handling and storage - Handling Procedure, Composition / information on ingredients - Ingredients, Exposure controls / personal protection - Personal Protection (eye), Handling and storage - Storage (suitable container), Identification of the substance / mixture and of the company / undertaking - Synonyms

Other information

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

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure	
Aspiration Hazard Category 1, H304	Calculation method	
Skin Corrosion/Irritation Category 1B, H314	Calculation method	
Serious Eye Damage/Eye Irritation Category 1, H318	Calculation method	
Specific Target Organ Toxicity - Repeated Exposure Category 2, H373	Calculation method	
, EUH066	On basis of test data	

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