# Wacker Elastosil E41 Tran 01 Wacker (Wacker-Chemie)

Chemwatch: 15-6329 Version No: 7.1

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

#### Chemwatch Hazard Alert Code: 3

Issue Date: 20/08/2021 Print Date: 23/03/2022 S.GHS.AUS.EN

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

Product Identifier	
Product name	Wacker Elastosil E41 Tran 01
Chemical Name	Not Applicable
Synonyms	Material: 60019658
Proper shipping name	FLAMMABLE LIQUID, N.O.S. (contains toluene)
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses Industrial. Adhesive / sealant .

#### Details of the supplier of the safety data sheet

Registered company name	Wacker (Wacker-Chemie)
Address	Hanns-Seidel-Platz 4 Muenchen 22 D-81737 Germany
Telephone	+49 89 627901
Fax	+49 89 6279 1770
Website	www.wacker.com
Email	info@wacker.com

#### Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	+61 1800 951 288
Other emergency telephone numbers	+61 2 9186 1132

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

#### **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

Poisons Schedule	Not Applicable	
Classification [1]	Flammable Liquids Category 2, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Acute Toxicity (Inhalation) Category 4, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 3	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

#### Label elements

Hazard pictogram(s)







Signal word Dange

#### Hazard statement(s)

Trazara diatement(e)	
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

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#### Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P260	Do not breathe mist/vapours/spray.

#### Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.	
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.	
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	

#### Precautionary statement(s) Storage

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

#### Precautionary statement(s) Disposal

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

#### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
108-88-3	<15	toluene
4253-34-3	<5	methyltriacetoxysilane
1067-33-0	<0.1	dibutyltin diacetate
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

#### **SECTION 4 First aid measures**

#### Description of first aid measures

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

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5 Firefighting measures**

### Extinguishing media

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

Do not use a water jet to fight fire.

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#### Special hazards arising from the substrate or mixture

Fire Incompatibility	<ul> <li>Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result</li> </ul>	
Advice for firefighters		
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> </ul>	

Prevent, by any means available, spillage from entering drains or water course.

## ► Liquid and vapour are flammable.

▶ Moderate fire hazard when exposed to heat or flame.

▶ Vapour forms an explosive mixture with air.

#### ▶ Moderate explosion hazard when exposed to heat or flame. Combustion products include:

carbon monoxide (CO) carbon dioxide (CO2)

other pyrolysis products typical of burning organic material

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#### **SECTION 6 Accidental release measures**

Fire/Explosion Hazard

#### Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Slippery when spilt.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Slippery when spilt.</li> </ul>

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

#### **SECTION 7 Handling and storage**

#### Precautions for safe handling ▶ Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. ▶ DO NOT allow clothing wet with material to stay in contact with skin Safe handling Avoid all personal contact, including inhalation. Wear protective clothing when risk of overexposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. ▶ Store in original containers in approved flammable liquid storage area. Store away from incompatible materials in a cool, dry, well-ventilated area. Other information DO NOT store in pits, depressions, basements or areas where vapours may be trapped. ▶ No smoking, naked lights, heat or ignition sources.

#### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Packing as supplied by manufacturer.</li> <li>Plastic containers may only be used if approved for flammable liquid.</li> <li>Check that containers are clearly labelled and free from leaks.</li> <li>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.</li> <li>For materials with a viscosity of at least 2680 cSt. (23 deg. C)</li> <li>For manufactured product having a viscosity of at least 250 cSt.</li> </ul>
Storage incompatibility	<ul> <li>Segregate from alcohol, water.</li> <li>NOTE: May develop pressure in containers; open carefully. Vent periodically.</li> <li>Avoid strong bases.</li> </ul>

#### **SECTION 8 Exposure controls / personal protection**

#### **Control parameters**

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	toluene	Toluene	50 ppm /	574	Not	Not Available

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Source	Ingredient	Material name	TWA	STEL	Peak	Notes
			191 mg/m3	mg/m3 / 150 ppm	Available	
Australia Exposure Standards	dibutyltin diacetate	Tin, organic compounds (as Sn)	0.1 mg/m3	0.2 mg/m3	Not Available	(g) Some compounds in these groups are classified as carcinogenic or as sensitisers. Check individual classification details on the safety data sheet for information on classification.

#### Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
toluene	Not Available	Not Available	Not Available
methyltriacetoxysilane	5 mg/m3	35 mg/m3	250 mg/m3
dibutyltin diacetate	0.59 mg/m3	6.5 mg/m3	39 mg/m3

Ingredient	Original IDLH	Revised IDLH
toluene	500 ppm	Not Available
methyltriacetoxysilane	Not Available	Not Available
dibutyltin diacetate	25 mg/m3	Not Available

#### **Exposure controls**

## 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.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

#### Personal protection









## Eye and face protection

- Safety glasses with side shields.
- ► Chemical goggles
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

#### Skin protection

#### See Hand protection below

#### ► Wea

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

## Hands/feet protection

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 hygiene is a key element of effective hand care.

#### **Body protection**

#### See Other protection below

- Overalls.PVC Apron.
- PVC protective suit may be required if exposure severe.
- ► Eyewash unit.

#### Other protection

- 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.

#### Recommended material(s)

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

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

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Material	СРІ
PE/EVAL/PE	A
PVA	A
VITON	A
VITON/CHLOROBUTYL	A
TEFLON	В
BUTYL	С
CPE	С
NEOPRENE	С

#### Respiratory protection

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

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

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	AB-AUS P2	-	AB-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AB-AUS / Class 1 P2	-
up to 100 x ES	-	AB-2 P2	AB-PAPR-2 P2 ^

#### ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hq = Mercury, NO =

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NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PVC	С
SARANEX-23	С
SARANEX-23 2-PLY	С
VITON/NEOPRENE	С

\* CPI - Chemwatch Performance Index

A: Best Selection

- B: Satisfactory; may degrade after 4 hours continuous immersion
- C: Poor to Dangerous Choice for other than short term immersion

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

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

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.
- $\mbox{\ }^{\blacktriangleright}$  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 Annearance Highly flammable transparent liquid with a strong odour; bydrolyzes in water and release aretic acid

Appearance	Highly flammable transparent liquid with a strong odour; hydrolyzes in water and release acetic acid.				
Physical state	Liquid	Relative density (Water = 1)	1.078 @ 23C		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available		
Odour threshold	Not Available	Auto-ignition temperature (°C)	~540		
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available		
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	65000 @ 23C		
Initial boiling point and boiling range (°C)	111 @ 101kPa	Molecular weight (g/mol)	Not Applicable		
Flash point (°C)	6	Taste	Not Available		
Evaporation rate	Not Available	Explosive properties	Not Available		
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available		
Upper Explosive Limit (%)	7.0	Surface Tension (dyn/cm or mN/m)	Not Available		
Lower Explosive Limit (%)	1.2	Volatile Component (%vol)	Not Available		
Vapour pressure (kPa)	2.9 @ 20C	Gas group	Not Available		
Solubility in water	Reacts	pH as a solution (Not Available%)	Not Applicable		
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available		

#### **SECTION 10 Stability and reactivity**

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

#### **SECTION 11 Toxicological information**

#### Information on toxicological effects

Inhaled	Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.
Ingestion	The material is not thought to produce adverse health effects following ingestion (as classified by EC Directives using animal models).  Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum.
Skin Contact	This material can cause inflammation of the skin on contact in some persons.  The material may accentuate any pre-existing dermatitis condition  Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.  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.

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Mutagenicity

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Eye This material can cause eye irritation and damage in some persons. Harmful: danger of serious damage to health by prolonged exposure through inhalation. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can Chronic Based on experience with animal studies, exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. TOXICITY IRRITATION Wacker Elastosil E41 Tran 01 Not Available Not Available TOXICITY IRRITATION Dermal (rabbit) LD50: 12124 mg/kg<sup>[2]</sup> Eye (rabbit): 2mg/24h - SEVERE Eve (rabbit):0.87 mg - mild Inhalation(Rat) LC50; >13350 ppm4h<sup>[2]</sup> Oral (Rat) LD50; 636 mg/kg<sup>[2]</sup> Eye (rabbit):100 mg/30sec - mild toluene Eye: adverse effect observed (irritating)<sup>[1]</sup> Skin (rabbit):20 mg/24h-moderate Skin (rabbit):500 mg - moderate Skin: adverse effect observed (irritating)<sup>[1]</sup> Skin: no adverse effect observed (not irritating)<sup>[1]</sup> TOXICITY IRRITATION Oral (Rat) LD50; 1550 mg/kg<sup>[1]</sup> Eye: adverse effect observed (irreversible damage)<sup>[1]</sup> methyltriacetoxysilane Skin: adverse effect observed (corrosive)<sup>[1]</sup> TOXICITY IRRITATION Dermal (rabbit) LD50: 2318 mg/kg<sup>[2]</sup> Not Available dibutyltin diacetate Oral (Rat) LD50; 32 mg/kg<sup>[2]</sup> Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances For toluene: Acute toxicity: Humans exposed to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis (sleepiness) and death. When inhaled or swallowed, toluene can cause severe central TOLUENE nervous system depression, and in large doses has a narcotic effect. 60mL has caused death. Death of heart muscle fibres, liver swelling, congestion and bleeding of the lungs and kidney injury were all found on autopsy. Exposure to inhalation at a concentration of 600 parts per million for 8 hours resulted in the same and more serious symptoms including euphoria (a feeling of well-being), dilated pupils, convulsions and nausea. The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis The material may produce respiratory tract irritation, and result in damage to the lung including reduced lung function. 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** Methyltriacetoxysilane is severely irritating and corrosive to the skin, and corrosive to the eves 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 to acetic acid may produce irritation and/ or corrosion at the site of contact as well as systemic toxicity. Prolonged inhalation 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. The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration. DIBUTYLTIN DIACETATE Foetal death and specific developmental abnormalities involving the central nervous system, craniofacial area and musculoskeletal system recorded. **TOLUENE &** The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of **METHYLTRIACETOXYSILANE** vesicles, scaling and thickening of the skin. Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main **METHYLTRIACETOXYSILANE** criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent & DIBUTYLTIN DIACETATE asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia **Acute Toxicity** Carcinogenicity Skin Irritation/Corrosion Reproductivity • × Serious Eve Damage/Irritation STOT - Single Exposure Respiratory or Skin × STOT - Repeated Exposure sensitisation × **Aspiration Hazard** 

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Legena:

7

Data available to make classification

#### **SECTION 12 Ecological information**

#### Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
Vacker Elastosil E41 Tran 01	Not Available	Not Available	Not Available	Not Available	Not Available
toluene	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	168h	Crustacea	0.74mg/L	5
	LC50	96h	Fish	5-35mg/l	4
	EC50	48h	Crustacea	3.78mg/L	5
	EC50	96h	Algae or other aquatic plants	>376.71mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	72h	Algae or other aquatic plants	>=3.6mg/l	2
methyltriacetoxysilane	LC50	96h	Fish	>=79<=88mg/l	2
	EC50	72h	Algae or other aquatic plants	>3.6mg/l	2
	EC50	48h	Crustacea	65mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	48h	Crustacea	0.65mg/l	2
dibutyltin diacetate	EC50	72h	Algae or other aquatic plants	>=1.6mg/l	2
	EC50	48h	Crustacea	1.4mg/l	2
Legend:	Ecotox databas		CHA Registered Substances - Ecotoxicological Inform Aquatic Hazard Assessment Data 6. NITE (Japan) -		

Harmful to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

DO NOT discharge into sewer or waterways

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
toluene	LOW (Half-life = 28 days)	LOW (Half-life = 4.33 days)
methyltriacetoxysilane	HIGH	HIGH
dibutyltin diacetate	HIGH	HIGH

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation	
toluene	LOW (BCF = 90)	
methyltriacetoxysilane	LOW (LogKOW = 0.2467)	
dibutyltin diacetate	LOW (LogKOW = 0.8138)	

#### Mobility in soil

Ingredient	Mobility
toluene	LOW (KOC = 268)
methyltriacetoxysilane	LOW (KOC = 35.19)
dibutyltin diacetate	LOW (KOC = 283.7)

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

#### Product / Packaging disposal

- Reduction
  Reuse
- Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

DO NOT allow wash water from cleaning or process equipment to enter drains.

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- ▶ 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.

#### **SECTION 14 Transport information**

#### **Labels Required**



NO •3Y

Marine Pollutant
HAZCHEM

#### Land transport (ADG)

UN number	1993		
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (contains toluene)		
Transport hazard class(es)	Class 3 Subrisk Not Applicable		
Packing group	III		
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions 223 274 Limited quantity 5 L		

#### Air transport (ICAO-IATA / DGR)

UN number	1993			
UN proper shipping name	Flammable liquid, n.o.s.	Flammable liquid, n.o.s. * (contains toluene)		
	ICAO/IATA Class	3		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	3L		
Packing group				
Environmental hazard	Not Applicable			
	Special provisions		A3	
	Cargo Only Packing Instructions		366	
	Cargo Only Maximum Qty / Pack		220 L	
Special precautions for user	Passenger and Cargo Packing Instructions		355	
	Passenger and Cargo Maximum Qty / Pack		60 L	
	Passenger and Cargo Limited Quantity Packing Instructions		Y344	
	Passenger and Cargo	Limited Maximum Qty / Pack	10 L	

#### Sea transport (IMDG-Code / GGVSee)

UN number	1993		
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (contains toluene)		
Transport hazard class(es)	IMDG Class   3     IMDG Subrisk   Not Applicable		
Packing group			
Environmental hazard	Not Applicable		
Special precautions for user	EMS Number Special provisions Limited Quantities	F-E, S-E 223 274 955 5 L	

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

Product name	Group
toluene	Not Available
methyltriacetoxysilane	Not Available
dibutyltin diacetate	Not Available

#### Transport in bulk in accordance with the ICG Code

Product name	Ship Type
toluene	Not Available
methyltriacetoxysilane	Not Available
dibutyltin diacetate	Not Available

#### **SECTION 15 Regulatory information**

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

#### toluene is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

#### methyltriacetoxysilane is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

#### dibutyltin diacetate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) Schedule 7

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

#### **National Inventory Status**

National Inventory	Status		
Australia - AIIC / Australia Non-Industrial Use	Yes		
Canada - DSL	Yes		
Canada - NDSL	No (toluene; methyltriacetoxysilane; dibutyltin diacetate)		
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	No (dibutyltin diacetate)		
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	20/08/2021
Initial Date	03/03/2010

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
6.1	03/09/2020	Classification change due to full database hazard calculation/update.
7.1	20/08/2021	Classification change due to full database hazard calculation/update.

#### Other information

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

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

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**Definitions and abbreviations** 

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors

BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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