

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Revision date 18-Mar-2024

Revision Number 1

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

1.1. Product identifier

Product Code(s) 66501
Safety data sheet number 66501
Product Name BETAWIPE 4000

Pure substance/mixture Mixture

Contains ETHYL ACETATE

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

Recommended use Activator Automotive

1.3. Details of the supplier of the safety data sheet

Supplier

Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
GBR

For further information, please contact

E-mail address SDS.EMEA@univarsolutions.com
Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

1.4. Emergency telephone number

Emergency Telephone SGS - +32 (0)3 575 55 55 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flammable liquids	Category 2 - (H225)
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity — single exposure	Category 3 - (H336)
Category 3 Narcotic effects	

2.2. Label elements

Contains ETHYL ACETATE



Signal word

Danger

Hazard statements

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H225 - Highly flammable liquid and vapour

Precautionary statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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

Additional information

This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
ETHYL ACETATE 141-78-6	>85 - <95%	205-500-4 (607-022-00-5)	-	(EUH066) Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H336)	Oral ATE: 4,934 mg/kg Inhalation ATE: > 29.3 mg/l (vapour) Dermal ATE: > 20,000 mg/kg	-	-
TRIS(P-ISOCYANA TOPHENYL)	>5 - <15%	223-981-9	-	Acute Tox. 4 (H302)	Oral ATE: 500 mg/kg	-	-

THIOPHOSPHATE 4151-51-3					Inhalation ATE: 5.7 mg/l (dust/mist)		
CHLOROBENZENE 108-90-7	>0.1 - <1%	203-628-5	-	Flam. Liq. 3 (H226) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411)	Oral ATE: > 2,000 mg/kg Inhalation ATE: 11 mg/l (vapour) Dermal ATE: > 2,212 mg/kg	-	-

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. Use personal protection recommended in Section 8.
Inhalation	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Delayed pulmonary edema may occur. Get medical attention if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if symptoms occur.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Inhalation	Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Coughing and/ or wheezing. Difficulty in breathing.
Eyes	Burning sensation. May cause redness and tearing of the eyes.
Dermal	Prolonged skin contact may defat the skin and produce dermatitis.

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

Note to doctors	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO₂). Alcohol resistant foam. Water spray or fog. Foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Ground and bond container and receiving equipment. Take precautionary measures against static discharge. Pay attention to flashback.

Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Carbon monoxide. Carbon dioxide (CO₂).

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Evacuate personnel to safe areas. Most vapours are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Cool containers with flooding quantities of water until well after fire is out.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Keep unnecessary and unprotected personnel from entering. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Vapours may travel to source of ignition and flash back. All equipment used when handling the product must be grounded. Take precautionary measures against static discharge.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow runoff to sewer, waterway or ground.

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand

or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Ground and bond containers when transferring material.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment. Wash thoroughly after handling. Store in a closed container. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember. Use personal protection recommended in Section 8.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep at temperatures between 5 and 25 °C. See section 10 for more information.

7.3. Specific end use(s)

Specific use(s)
See section 1 for more information.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	United Kingdom
ETHYL ACETATE 141-78-6	TWA: 400 ppm TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm
TRIS(P-ISOCYANATOPHENYL) THIOPHOSPHATE 4151-51-3	TWA: 0.02 mg/m ³ STEL: 0.07 mg/m ³
CHLOROBENZENE 108-90-7	TWA: 10 ppm TWA: 23 mg/m ³ TWA: 5ppm STEL: 70 mg/m ³ STEL: 15 ppm TWA: 4.7 mg/m ³ TWA: 1 ppm STEL: 3 ppm STEL: 14 mg/m ³ Sk*

Biological occupational exposure limits

Chemical name	United Kingdom
TRIS(P-ISOCYANATOPHENYL) THIOPHOSPHATE 4151-51-3	1 µmol/mol creatinine - Urine - Post Shift
CHLOROBENZENE 108-90-7	100 mg/g Creatinine - Urine - End of shift at end of workweek 20 mg/g Creatinine - Urine - End of shift at end of workweek

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
CHLOROBENZENE 108-90-7		5 mg/kg/day [4] [6]	70 mg/m ³ [4] [7] 23 mg/m ³ [4] [6]

[4] Systemic health effects.
 [5] Local health effects.
 [6] Long term.
 [7] Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
CHLOROBENZENE 108-90-7	3 mg/kg bw/day [4] [7] 3 mg/kg bw/day [4] [6]	3 mg/kg bw/day [4] [7] 3 mg/kg bw/day [4] [6]	1 mg/kg [4] [7] 1 mg/kg [4] [6]

[4] Systemic health effects.
 [6] Long term.
 [7] Short term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
CHLOROBENZENE 108-90-7	0.032 mg/l		0.003 mg/l		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
CHLOROBENZENE 108-90-7	0.922 mg/l	0.092 mg/kg	1.4 mg/l	0.166 mg/kg/day	10 mg/kg food

8.2. Exposure controls

Engineering controls

Ensure adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location. Respiratory protection must be used if air contamination exceeds acceptable level. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond all lines and equipment associated with product system. All equipment should be non-sparking and explosion proof. Take action to prevent static discharges.

Personal protective equipment

Eye/face protection

Tight sealing safety goggles. Use eye protection according to EN 166.

Hand protection

Wear suitable gloves. Impervious gloves. Gloves must conform to standard EN 374.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Long term (repeated)	Butyl rubber	>0.35 mm	>120 minutes
Long term (repeated)	Polyethylene (PE)	>0.35 mm	>120 minutes
Long term (repeated)	Chlorinated polyethylene (CPE)	>0.35 mm	>120 minutes
Long term (repeated)	Ethyl vinyl alcohol laminate ("EVAL")	>0.35 mm	>120 minutes
Long term (repeated)	Neoprene gloves	>0.35 mm	>120 minutes
Long term (repeated)	Viton™	>0.35 mm	>120 minutes
Long term (repeated)	Polyvinyl chloride (PVC)	>0.35 mm	>120 minutes
Long term (repeated)	Nitrile rubber	>0.35 mm	>120 minutes
Short term	Butyl rubber	>0.35 mm	>10 minutes
Short term	Polyethylene (PE)	>0.35 mm	>10 minutes
Short term	Chlorinated polyethylene (CPE)	>0.35 mm	>10 minutes
Short term	Ethyl vinyl alcohol laminate ("EVAL")	>0.35 mm	>10 minutes
Short term	Neoprene gloves	>0.35 mm	>10 minutes
Short term	Viton™	>0.35 mm	>10 minutes
Short term	Polyvinyl chloride (PVC)	>0.35 mm	>10 minutes
Short term	Nitrile rubber	>0.35 mm	>10 minutes

Skin and body protection

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Organic gases and vapours filter conforming to EN 14387.

General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	yellow
Odour	Ester.
Odour threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing point	-84 °C	No information available.
Initial boiling point and boiling range	77 °C	No information available.
Flammability		No information available.
Flammability Limit in Air		No information available.
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point	-4 °C	No information available.
Autoignition temperature	427 °C	No information available.
Decomposition temperature		No information available.
pH		No information available.
pH (as aqueous solution)		No information available.
Kinematic viscosity		No information available.
Dynamic viscosity		No information available.
Water solubility	Insoluble in water	No information available.
Solubility(ies)		No information available.
Partition coefficient		No information available.
Vapour pressure	100.25 hPa	No information available.
Relative density		No information available.
Bulk density		No information available.
Liquid Density	0.93	No information available.
Relative vapour density		No information available.
Particle characteristics		No information available.
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	No information available	
Oxidising properties	No information available	

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Stable under normal conditions.
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10.2. Chemical stability

Stability	Stable under normal conditions.
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Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. static discharge (electrostatic discharge).

10.5. Incompatible materials

Incompatible materials Acids. Bases. Oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Decomposition products depend upon temperature, air supply and the presence of other materials.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 5,555.60 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
ETHYL ACETATE	= 4,934 mg/kg (Rabbit)	> 20,000 mg/kg (Rabbit)	> 29.3 mg/l (Rat) 4h
TRIS(P-ISOCYANATOPHENYL) THIOPHOSPHATE	> 675 mg/kg (Rat)	-	= 5.7 mg/l (Rat, male) 4h > 6.6 mg/l (Rat, female) 4h
CHLOROBENZENE	> 2,000 mg/kg (Rat)	> 2,212 mg/kg (Rabbit)	= 29.7 mg/l (Rat) 4h

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation**

Not classified. Prolonged contact may cause redness and irritation. Dryness and/or cracking. May cause skin irritation.

ETHYL ACETATE (141-78-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit				non-irritant Repeated exposure may cause skin dryness or cracking

TRIS(P-ISOCYANATOPHENYL) THIOPHOSPHATE (4151-51-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Prolonged contact may cause redness and irritation

CHLOROBENZENE (108-90-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Prolonged contact may cause redness and irritation

Serious eye damage/eye irritation

May cause eye irritation. Classification based on data available for ingredients. Causes serious eye irritation.

ETHYL ACETATE (141-78-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Mild eye irritation

TRIS(P-ISOCYANATOPHENYL) THIOPHOSPHATE (4151-51-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause eye irritation

CHLOROBENZENE (108-90-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause slight eye irritation

Respiratory or skin sensitisation

Not classified.

Method	Species	Exposure route	Results
	Guinea pig	Dermal	Not a skin sensitiser

ETHYL ACETATE (141-78-6)

Method	Species	Exposure route	Results
	Guinea pig	Dermal	No sensitisation responses were observed

TRIS(P-ISOCYANATOPHENYL) THIOPHOSPHATE (4151-51-3)

Method	Species	Exposure route	Results
	Guinea pig	Dermal	Not a skin sensitiser

CHLOROBENZENE (108-90-7)

Method	Species	Exposure route	Results
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	Guinea pig	Dermal	Not a skin sensitiser
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Germ cell mutagenicity Based on available data the classification criteria are not met.

Product Information		
Method	Species	Results
	in vitro	Not mutagenic

Component Information

ETHYL ACETATE (141-78-6)

Method	Species	Results
	in vitro	Not mutagenic
	in vivo	Not mutagenic

TRIS(P-ISOCYANATOPHENYL) THIOPHOSPHATE (4151-51-3)

Method	Species	Results
	in vitro	Not mutagenic

CHLOROBENZENE (108-90-7)

Method	Species	Results
	in vitro	Not mutagenic
	in vivo	Not mutagenic

Carcinogenicity

Not classified.

Component Information

ETHYL ACETATE (141-78-6)

Method	Species	Results
		Not Carcinogenic

CHLOROBENZENE (108-90-7)

Method	Species	Results
		Limited evidence of a carcinogenic effect

Reproductive toxicity

Not classified.

ETHYL ACETATE (141-78-6)

Method	Species	Results
		Negative

CHLOROBENZENE (108-90-7)

Method	Species	Results
		Negative

STOT - single exposure

May cause drowsiness or dizziness. May cause drowsiness or dizziness.

ETHYL ACETATE (141-78-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
		Inhalation			May cause drowsiness or dizziness

TRIS(P-ISOCYANATOPHENYL) THIOPHOSPHATE (4151-51-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data the classification criteria are not met.

CHLOROBENZENE (108-90-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Not classified

STOT - repeated exposure Not classified.

ETHYL ACETATE (141-78-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Inhalation	16 mg/L	40 days	Not classified
	Rat	Inhalation	0.043 mg/L	90 days	Not classified
	Rat	Oral	3600 mg/kg	90 days	Not classified

TRIS(P-ISOCYANATOPHENYL) THIOPHOSPHATE (4151-51-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data the classification criteria are not met.

CHLOROBENZENE (108-90-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause damage to organs

Aspiration hazard Not classified.

Other adverse effects This product does not contain any known or suspected endocrine disruptors.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Not considered to be harmful to aquatic life.

ETHYL ACETATE (141-78-6)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Pimephales promelas	LC50	230 mg/L	96 hours	
	Daphnia magna	EC50	165 mg/L	48 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	NOEC	>100 mg/L	72 hours	
	Pimephales promelas	NOEC	< 9.65 mg/L	32 days	
	Daphnia magna	NOEC	2.4 mg/L	21 days	

TRIS(P-ISOCYANATOPHENYL) THIOPHOSPHATE (4151-51-3)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Brachydanio rerio	LC50	>100 mg/L	96 hours	

	Daphnia magna	EC50	>100 mg/L	48 hours	
	Scenedesmus subspicatus	ErC50	>100 mg/L	72 hours	
	Scenedesmus subspicatus	NOEC	>100 mg/L	72 hours	
	activated sludge	EC50	>1000 mg/L	3 hours	

CHLOROBENZENE (108-90-7)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Lepomis macrochirus	LC50	4.5 mg/L	96 hours	
	Oncorhynchus mykiss (rainbow trout)	LC50	7.5 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	26 mg/L	48 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	ErC50	11.4 mg/L	72 hours	
OECD Test No. 209: Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)	Bacteria toxicity	EC50	140 mg/L	30 minutes	
	Brachydanio rerio	NOEC	4.8 mg/L	28 days	
	Daphnia magna	NOEC	0.32 mg/L	21 days	
	Eisenia fetida	LC50	29 mg/cm2	2 days	

12.2. Persistence and degradability

Persistence and degradability No information available.

ETHYL ACETATE (141-78-6)

Method	Exposure time	Value	Results
OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D)	28 days	100% Biodegradation	Readily biodegradable

TRIS(P-ISOCYANATOPHENYL) THIOPHOSPHATE (4151-51-3)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	58.2% Biodegradation	Not readily biodegradable

CHLOROBENZENE (108-90-7)

Method	Exposure time	Value	Results
OECD Test No. 301C: Ready Biodegradability: Modified MITI Test (I) (TG 301 C)	28 days	15 % Biodegradation	Not readily biodegradable

12.3. Bioaccumulative potential**Bioaccumulation****Component Information**

Chemical name	Partition coefficient
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ETHYL ACETATE	0.68
TRIS(P-ISOCYANATOPHENYL) THIOPHOSPHATE	8.27

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
ETHYL ACETATE	The substance is not PBT / vPvB
TRIS(P-ISOCYANATOPHENYL) THIOPHOSPHATE	The substance is not PBT / vPvB
CHLOROBENZENE	The substance is not PBT / vPvB

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste from residues/unused products Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

Other information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information**IATA**

14.1 UN number or ID number UN1173
 14.2 UN proper shipping name ETHYL ACETATE
 14.3 Transport hazard class(es) 3
 14.4 Packing group II
 14.5 Environmental hazards No
 14.6 Special precautions for user
 Special Provisions None
 ERG Code 3L

IMDG

14.1 UN number or ID number UN1173
 UN proper shipping name ETHYL ACETATE
 14.3 Transport hazard class(es) 3
 14.4 Packing group II
 14.5 Environmental hazards No
 14.6 Special precautions for user
 Special Provisions None
 EmS-No F-E, S-D
 14.7 Maritime transport in bulk according to IMO instruments No information available

RID

14.1 UN number or ID number	UN1173
14.2 UN proper shipping name	ETHYL ACETATE
14.3 Transport hazard class(es)	3
14.4 Packing group	II
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None
Classification code	F1

ADR

14.1 UN number or ID number	UN1173
14.2 UN proper shipping name	ETHYL ACETATE
14.3 Transport hazard class(es)	3
14.4 Packing group	II
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None
Classification code	F1
Tunnel restriction code	(D/E)

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Authorisations and/or restrictions on use:**

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

Product restricted per REACH Annex XVII: 3

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Dangerous substance category per COMAH Regulations 2015 (as amended)

P5b - FLAMMABLE LIQUIDS

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

EUH066 - Repeated exposure may cause skin dryness or cracking
 H225 - Highly flammable liquid and vapour
 H226 - Flammable liquid and vapour
 H302 - Harmful if swallowed
 H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H332 - Harmful if inhaled
 H336 - May cause drowsiness or dizziness
 H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		

Revision Note ***Indicates updated data since last publication

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method

Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGl(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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**This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet