

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
REACH Regulation (EC) No 1907/2006, as retained in UK law by (SI 2019/758 as amended)

Revision date 06/10/2026

Revision Number 2

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

1.1. Product identifier

Product Name THIOFLEX 555 MACHINE GRADE HARDENER

Safety data sheet number 29843

Pure substance/mixture Mixture

Contains CHLORINATED PARAFFIN (C14-17); HYDROCARBONS, C9, aromatics

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

Recommended use Hardener component for two part polysulfide sealant.

Uses advised against Consumer use

1.3. Details of the supplier of the safety data sheet

Supplier

SAINT-GOBAIN CONSTRUCTION CHEMICALS UK LIMITED
Drayton Manor Business Park
Coleshill Road
Tamworth
Staffordshire
B78 3XN
England
Tel. +44 (0) 1827 262222
Fax. +44 (0) 1827 262444

For further information, please contact

E-mail address sgccenquiries@saint-gobain.com

1.4. Emergency telephone number

Emergency Telephone +44 (0) 1827 265 279 (Monday to Sunday, 24 hours a day)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP (SI 2020/1567 as amended)

Skin irritation	Category 2 - (H315)
Eye irritation	Category 2 - (H319)
Effects on or via lactation	Yes - (H362)
Hazardous to the aquatic environment - acute	Category 1 - (H400)
Hazardous to the aquatic environment - chronic	Category 1 - (H410)

2.2. Label elements

Contains CHLORINATED PARAFFIN (C14-17); HYDROCARBONS, C9, aromatics



Signal word

Danger

Hazard statements

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H362 - May cause harm to breast-fed children.

H410 - Very toxic to aquatic life with long lasting effects.

EUH208 - Contains THIRAM. May produce an allergic reaction.

EUH066 - Repeated exposure may cause skin dryness or cracking.

Precautionary statements

P201 - Obtain special instructions before use.

P260 - Do not breathe dust, fume, gas, mist, vapors and spray.

P263 - Avoid contact during pregnancy and while nursing.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection and face protection.

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P391 - Collect spillage.

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

Additional information

Restricted to professional users.

2.3. Other hazards

Other hazards

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

PBT and vPvB assessment

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No (EU)	UK REACH	Classification	Specific	M-Factor	M-Factor	Notes
---------------	----------	------------	----------	----------------	----------	----------	----------	-------

		Index No)	registration number	according to GB CLP (SI 2020/1567 as amended)	concentration limit (SCL)		(long-ter m)	
CHLORINATED PARAFFIN (C14-17) 85535-85-9	25 - <50%	287-477-0 (602-095-00-X)	-	Lact. (H362) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH066)	-	-	-	-
CALCIUM CARBONATE 1317-65-3	25 - <50%	215-279-6	-	-	-	-	-	-
MANGANESE DIOXIDE 1313-13-9	5 - <10%	215-202-6 (025-001-00-3)	-	Acute Tox. 4 (H302) Acute Tox. 4 (H332) STOT RE. 2 (H373)	-	-	-	-
HYDROCARBONS, C9, aromatics 64742-95-6	1 - <2.5%	265-199-0 (649-356-00-4)	-	Flam. Liq. 3 (H226) Carc. 1B (H350) Asp. Tox. 1 (H304) Muta. 1B (H340)	-	-	-	P
THIRAM 137-26-8	0.5 - <1%	205-286-2 (006-005-00-4)	-	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	10	10	-
1,2,4-TRIMETHYLBEN- ZENE 95-63-6	0.5 - <1%	202-436-9 (601-043-00-3)	-	Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) STOT SE 3 (H335) Aquatic Chronic 2 (H411)	-	-	-	-
SODIUM HYDROXIDE 1310-73-2	0.25 - <0.5%	215-185-5 (011-002-00-6)	-	Skin Corr. 1A (H314)	Eye Irrit. 2 :: 0.5%<=C<2% Skin Corr. 1A :: C>=5% Skin Corr. 1B :: 2%<=C<5% Skin Irrit. 2 :: 0.5%<=C<2%	-	-	-
POTASSIUM HYDROXIDE 1310-58-3	0.025 - <0.25%	215-181-3 (019-002-00-8)	-	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Corr. 1A (H314) Corr. met 1, H290	Eye Irrit. 2 :: 0.5%<=C<2% Skin Corr. 1A :: C>=5% Skin Corr. 1B :: 2%<=C<5% Skin Irrit. 2 :: 0.5%<=C<2%	-	-	-
XYLENE 1330-20-7	0.025 - <0.25%	215-535-7 (601-022-00-9)	-	Flam. Liq. 3 (H226) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Acute Tox. 4 (H332)	-	-	-	C
CUMENE 98-82-8	<0.025%	202-704-5 (601-024-00-X)	-	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) STOT SE 3 (H335)	-	-	-	-

				Carc. 1B (H350) Aquatic Chronic 2 (H411)				
--	--	--	--	--	--	--	--	--

CLP Notes

Note C - Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note P - The harmonized classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0.1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102)-P260-P262-P301 + P310-P331 shall apply.

Full text of H- and EUH-phrases: see section 16**Acute Toxicity Estimate**

In the absence of LD50/LC50 data, the conversion value (converted acute toxicity point estimate) may be indicated here; please note that these values do not represent test results

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
CHLORINATED PARAFFIN (C14-17) 85535-85-9	13150	No data available	No data available	No data available	No data available
MANGANESE DIOXIDE 1313-13-9	3480	No data available	No data available	No data available	No data available
HYDROCARBONS, C9, aromatics 64742-95-6	8400	2000	No data available	No data available	No data available
THIRAM 137-26-8	1080	7940	0.5	No data available	No data available
1,2,4-TRIMETHYLBENZE NE 95-63-6	3280	3440	18	No data available	No data available
SODIUM HYDROXIDE 1310-73-2	325	1350	No data available	No data available	No data available
POTASSIUM HYDROXIDE 1310-58-3	284	No data available	No data available	No data available	No data available
XYLENE 1330-20-7	3500	4350	No data available	No data available	No data available
CUMENE 98-82-8	1400	10578	No data available	21.5355	No data available

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. IF exposed or concerned: Get medical advice/attention.

Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms	May cause redness and tearing of the eyes. Burning sensation.
Effects of Exposure	No information available.

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

Note to doctors	Treat symptomatically.
------------------------	------------------------

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Extinguish with carbon dioxide, foam, powder and water spray.
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	Harmful gases or vapours.
---	---------------------------

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. Use personal protection equipment.
---	--

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.
Other information	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	Prevent further leakage or spillage if safe to do so.
----------------------------------	---

6.3. Methods and material for containment and cleaning up

Methods for containment	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local /
--------------------------------	--

national regulations (see Section 13).

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

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 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. Remove contaminated clothing and shoes. Take off contaminated clothing and wash it before reuse.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Specific use(s)

The identified uses for this product are detailed in Section 1.2.

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
CALCIUM CARBONATE 1317-65-3	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³
MANGANESE DIOXIDE 1313-13-9	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ STEL: 0.6 mg/m ³ STEL: 0.15 mg/m ³
1,2,4-TRIMETHYLBENZENE 95-63-6	TWA: 25 ppm TWA: 125 mg/m ³ STEL: 75 ppm STEL: 375 mg/m ³
SODIUM HYDROXIDE 1310-73-2	STEL: 2 mg/m ³
POTASSIUM HYDROXIDE	STEL: 2 mg/m ³

1310-58-3 XYLENE 1330-20-7	TWA: 50 ppm TWA: 220 mg/m ³ STEL: 100 ppm STEL: 441 mg/m ³ Sk*
CUMENE 98-82-8	TWA: 25 ppm TWA: 125 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*

Note See section 16 for terms and abbreviations
Biological occupational exposure limits

Chemical name	United Kingdom
XYLENE 1330-20-7	650 mmol/mol creatinine - urine (Methyl hippuric acid) - post shift

Derived No Effect Level (DNEL) - Workers No information available

Chemical name	Oral	Dermal	Inhalation
CHLORINATED PARAFFIN (C14-17) 85535-85-9	-	47.9 mg/kg bw/day [4] [6]	6.7 mg/m ³ [4] [6]
MANGANESE DIOXIDE 1313-13-9	-	0.00414 mg/kg bw/day [4] [6]	0.2 mg/m ³ [4] [6]
HYDROCARBONS, C9, aromatics 64742-95-6	-	-	1286.4 mg/m ³ [4] [7] 837.5 mg/m ³ [5] [6] 1066.67 mg/m ³ [5] [7]
THIRAM 137-26-8	-	1.6 mg/kg bw/day [4] [6] 10 mg/kg bw/day [4] [7]	0.118 mg/m ³ [4] [6] 0.564 mg/m ³ [4] [7]
1,2,4-TRIMETHYLBENZENE 95-63-6	-	16171 mg/kg bw/day [4] [6]	100 mg/m ³ [4] [6] 100 mg/m ³ [4] [7] 100 mg/m ³ [5] [6] 100 mg/m ³ [5] [7]
SODIUM HYDROXIDE 1310-73-2	-	-	1 mg/m ³ [5] [6]
POTASSIUM HYDROXIDE 1310-58-3	-	-	1 mg/m ³ [5] [6]
XYLENE 1330-20-7	-	212 mg/kg bw/day [4] [6]	221 mg/m ³ [4] [6] 442 mg/m ³ [4] [7] 221 mg/m ³ [5] [6] 442 mg/m ³ [5] [7]
CUMENE 98-82-8	-	15.4 mg/kg bw/day [4] [6]	100 mg/m ³ [4] [6] 250 mg/m ³ [5] [7]

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

Derived No Effect Level (DNEL) - General Public No information available.

Chemical name	Oral	Dermal	Inhalation
CHLORINATED PARAFFIN (C14-17)	0.58 mg/kg bw/day [4] [6]	-	2 mg/m ³ [4] [6]

Chemical name	Oral	Dermal	Inhalation
85535-85-9			
MANGANESE DIOXIDE 1313-13-9	-	-	0.043 mg/m ³ [4] [6]
HYDROCARBONS, C9, aromatics 64742-95-6	-	-	1152 mg/m ³ [4] [7] 178.57 mg/m ³ [5] [6] 640 mg/m ³ [5] [7]
1,2,4-TRIMETHYLBENZENE 95-63-6	15 mg/kg bw/day [4] [6]	-	29.4 mg/m ³ [4] [6] 29.4 mg/m ³ [4] [7] 29.4 mg/m ³ [5] [6] 29.4 mg/m ³ [5] [7]
SODIUM HYDROXIDE 1310-73-2	-	-	1 mg/m ³ [5] [6]
POTASSIUM HYDROXIDE 1310-58-3	-	-	1 mg/m ³ [5] [6]
XYLENE 1330-20-7	12.5 mg/kg bw/day [4] [6]	-	65.3 mg/m ³ [4] [6] 260 mg/m ³ [4] [7] 65.3 mg/m ³ [5] [6] 260 mg/m ³ [5] [7]
CUMENE 98-82-8	5 mg/kg bw/day [4] [6]	-	16.6 mg/m ³ [4] [6]

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

Predicted No Effect Concentration (PNEC) No information available.

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
CHLORINATED PARAFFIN (C14-17) 85535-85-9	1 µg/L	-	0.2 µg/L	-	-
1,2,4-TRIMETHYLBENZE NE 95-63-6	0.12 mg/L	0.12 mg/L	0.12 mg/L	-	-
XYLENE 1330-20-7	0.327 mg/L	0.327 mg/L	0.327 mg/L	-	-
CUMENE 98-82-8	0.035 mg/L	0.012 mg/L	0.0035 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
CHLORINATED PARAFFIN (C14-17) 85535-85-9	13 mg/kg sediment dw	2.6 mg/kg sediment dw	80 mg/L	11.9 mg/kg soil dw	10 mg/kg food
1,2,4-TRIMETHYLBENZE NE 95-63-6	13.56 mg/kg sediment dw	13.56 mg/kg sediment dw	2.41 mg/L	2.34 mg/kg soil dw	-
XYLENE 1330-20-7	12.46 mg/kg sediment dw	12.46 mg/kg sediment dw	6.58 mg/L	2.31 mg/kg soil dw	-
CUMENE 98-82-8	3.22 mg/kg sediment dw	0.322 mg/kg sediment dw	200 mg/L	0.624 mg/kg soil dw	-

8.2. Exposure controls

Engineering controls Showers
 Eyewash stations
 Ventilation systems.

Personal protective equipment

Eye/face protection If splashes are likely to occur, wear safety glasses with side-shields. Eye protection must conform to standard 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
	Polyvinyl chloride (PVC) Wear protective nitrile rubber gloves	0.4 mm	

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Thermal hazards None under normal processing.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance Liquid
Physical state Liquid
Colour black
Odour Slight
Odour threshold Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	Not applicable
pH (as aqueous solution)	No data available	Not applicable
Melting point / freezing point	No data available	Not applicable
Initial boiling point and boiling range	No data available	Not determined
Flash point	100 °C	Closed cup
Evaporation rate	No data available	Not applicable
Flammability	Not determined	Not determined
Flammability Limit in Air		Not applicable
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapour pressure	No data available	Not determined
Relative vapour density	No data available	Not determined
Relative density	1.74	@ 20°C
Bulk density	No data available	

Liquid Density	No data available	
Solubility(ies)	Insoluble in water	None known
Water solubility	Insoluble in water	None known
Partition coefficient	No data available	Not applicable
Autoignition temperature	No data available	Not determined
Decomposition temperature		Not determined
SADT (°C)	No data available	None known
Kinematic viscosity	No data available	Not determined
Dynamic viscosity	No data available	Not determined.
Particle characteristics		
Particle Size	No data available	
Particle Size Distribution	No data available	
Explosive properties	Not considered to be explosive.	
Oxidising properties	The mixture does not meet the criteria for classification as oxidising.	

9.2. Other information

Information with regards to physical hazard classes

None known

Other safety characteristics

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable at normal ambient temperatures.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerisation None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

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.
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. Causes skin irritation. (based on components).
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 Redness. May cause redness and tearing of the eyes.

Acute toxicity Based on available data, the classification criteria are not met.

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral)	5,961.30 mg/kg
ATEmix (dermal)	272,625.30 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-vapour)	99,999.0000 mg/l
ATEmix (inhalation-dust/mist)	18.20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
CHLORINATED PARAFFIN (C14-17)	> 10 mL/kg (Rat)	-	-
MANGANESE DIOXIDE	> 3480 mg/kg (Rat)	-	> 1500 mg/m ³ (Rat) 4 h
HYDROCARBONS, C9, aromatics	= 8400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 3400 ppm (Rat) 4 h
THIRAM	= 1080 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	= 500 mg/m ³ (Rat) 4 h
1,2,4-TRIMETHYLBENZENE	= 3280 mg/kg (Rat)	> 3440 mg/kg (Rat)	= 18 g/m ³ (Rat) 4 h
SODIUM HYDROXIDE	= 325 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	-
POTASSIUM HYDROXIDE	= 284 mg/kg (Rat)	-	-
XYLENE	= 3500 mg/kg (Rat)	> 4350 mg/kg (Rabbit)	= 29.08 mg/L (Rat) 4 h
CUMENE	= 1400 mg/kg (Rat)	= 12300 µL/kg (Rabbit)	> 3577 ppm (Rat) 6 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for ingredients. May cause genetic defects.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

Chemical name	United Kingdom
1,2,4-TRIMETHYLBENZENE	Muta. 1B
CUMENE	Muta. 1B

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	United Kingdom
1,2,4-TRIMETHYLBENZENE	Carc. 1B
CUMENE	Carc. 1B

Reproductive toxicity Classification based on data available for ingredients. May cause harm to breast-fed children.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	United Kingdom
CHLORINATED PARAFFIN (C14-17)	Lact.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Other adverse effects None known.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
HYDROCARBONS, C9, aromatics	-	LC50: =9.22mg/L (96h, Oncorhynchus mykiss)	-	EC50: =6.14mg/L (48h, Daphnia magna)
THIRAM	EC50: <0.1mg/L (96h, Desmodesmus subspicatus)	LC50: =0.0003mg/L (96h, Cyprinus carpio) LC50: =0.13mg/L (96h, Lepomis macrochirus) LC50: 0.034 - 0.05005mg/L (96h, Lepomis macrochirus)	-	EC50: =0.21mg/L (48h, Daphnia magna)

		LC50: =0.048mg/L (96h, Oncorhynchus mykiss) LC50: 0.00024 - 0.00028mg/L (96h, Oncorhynchus mykiss) LC50: 0.090 - 0.170mg/L (96h, Oncorhynchus mykiss) LC50: =0.27mg/L (96h, Pimephales promelas) LC50: 0.0491 - 0.0611nM (96h, Pimephales promelas) LC50: 0.22 - 0.33mg/L (96h, Poecilia reticulata)		
1,2,4-TRIMETHYLBENZENE	-	LC50: 7.19 - 8.28mg/L (96h, Pimephales promelas)	-	EC50: =6.14mg/L (48h, Daphnia magna)
SODIUM HYDROXIDE	-	LC50: =45.4mg/L (96h, Oncorhynchus mykiss)	-	-
XYLENE	EC50: =11mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =13.4mg/L (96h, Pimephales promelas) LC50: 2.661 - 4.093mg/L (96h, Oncorhynchus mykiss) LC50: 13.5 - 17.3mg/L (96h, Oncorhynchus mykiss) LC50: 13.1 - 16.5mg/L (96h, Lepomis macrochirus) LC50: =19mg/L (96h, Lepomis macrochirus) LC50: 7.711 - 9.591mg/L (96h, Lepomis macrochirus) LC50: 23.53 - 29.97mg/L (96h, Pimephales promelas) LC50: =780mg/L (96h, Cyprinus carpio) LC50: >780mg/L (96h, Cyprinus carpio) LC50: 30.26 - 40.75mg/L (96h, Poecilia reticulata)	-	EC50: =3.82mg/L (48h, water flea) LC50: =0.6mg/L (48h, Gammarus lacustris)
CUMENE	EC50: =2.6mg/L (72h, Pseudokirchneriella subcapitata)	LC50: 6.04 - 6.61mg/L (96h, Pimephales promelas) LC50: =4.8mg/L (96h, Oncorhynchus mykiss) LC50: =2.7mg/L (96h, Oncorhynchus mykiss) LC50: =5.1mg/L (96h, Poecilia reticulata)	-	EC50: =0.6mg/L (48h, Daphnia magna) EC50: 7.9 - 14.1mg/L (48h, Daphnia magna)

12.2. Persistence and degradability**Persistence and degradability**

The product is not expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
CHLORINATED PARAFFIN (C14-17)	7
MANGANESE DIOXIDE	<0
THIRAM	2.1
1,2,4-TRIMETHYLBENZENE	3.63
POTASSIUM HYDROXIDE	0.83
XYLENE	3.15
CUMENE	3.55

12.4. Mobility in soil

Mobility in soil Insoluble in water.

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
CHLORINATED PARAFFIN (C14-17)	Not PBT/vPvB
MANGANESE DIOXIDE	Not PBT/vPvB
HYDROCARBONS, C9, aromatics	Not PBT/vPvB
THIRAM	Not PBT/vPvB
1,2,4-TRIMETHYLBENZENE	Not PBT/vPvB
SODIUM HYDROXIDE	Not PBT/vPvB
POTASSIUM HYDROXIDE	Not PBT/vPvB
XYLENE	Not PBT/vPvB
CUMENE	Not PBT/vPvB

12.6. Other adverse effects

No information available.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

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

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty 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

3082

14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(CONTAINS THIRAM, CHLORINATED PARAFFIN (C14-17))

14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None

IMDG

14.1 UN number or ID number	UN 3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(CONTAINS THIRAM, CHLORINATED PARAFFIN (C14-17))
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	None known

RID

14.1 UN number or ID number	UN 3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(CONTAINS THIRAM, CHLORINATED PARAFFIN (C14-17))
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	UN 3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(CONTAINS THIRAM, CHLORINATED PARAFFIN (C14-17))
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None
Classification code	90
Tunnel restriction code	(E)
Special precautions for user	No special precautions are needed in handling this material

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

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

Chemical name	Restricted substance per UK REACH Annex XVII	Substance subject to authorization per UK REACH Annex XIV
HYDROCARBONS, C9, aromatics 64742-95-6	Use restricted. See item 28. Use restricted. See item 29. Restricted Carcinogen 1B Restricted Mutagen 1B	-
1,2,4-TRIMETHYLBENZENE 95-63-6	Use restricted. See item 28. Use restricted. See item 29.	-
XYLENE 1330-20-7	Use restricted. See item 28. Use restricted. See item 29.	-
CUMENE	Use restricted. See item 28.	-

98-82-8	Use restricted. See item 29.	
---------	------------------------------	--

Persistent Organic Pollutants

Not applicable

Export Notification requirements

This product contains one or more substances pursuant to GB Prior Informed Consent (PIC) Regulations (as amended)

Chemical name	Export Notification requirements
THIRAM	I.1
137-26-8	I.3
	I.2

Dangerous substance category per COMAH (SI 2015/483 as amended)

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Named dangerous substances per COMAH (SI 2015/483 as amended)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
HYDROCARBONS, C9, aromatics 64742-95-6	-	25000

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 and Explosive Precursors

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
TCSI	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 Chemicals Inventory
PICCS	- Philippines Inventory of Chemicals and Chemical Substances
AIIC	- Australian Inventory of Industrial Chemicals
NZIoC	- New Zealand Inventory of Chemicals
TCSI	- Taiwan Chemical Substance Inventory

15.2. Chemical safety assessment

Chemical Safety Report

No chemical safety assessment has been carried out for this product.

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of any hazard and/or precautionary statements referred to under Sections 2-15**

EUH066 - Repeated exposure may cause skin dryness or cracking

H226 - Flammable liquid and vapour

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H340 - May cause genetic defects

H350 - May cause cancer

H362 - May cause harm to breast-fed children

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves, protective clothing, eye protection and face protection

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P321 - Specific treatment (see supplemental first aid instructions on this label)

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P362 + P364 - Take off contaminated clothing and wash it before reuse

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

P337 + P313 - If eye irritation persists: Get medical advice/attention

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P405 - Store locked up

P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable

P260 - Do not breathe dust, fume, gas, mist, vapors and spray

P263 - Avoid contact during pregnancy and while nursing

P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

P391 - Collect spillage

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight

Ceiling	Maximum limit value
CLP	Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
EC Number	European Community number
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EPA	Environmental Protection Agency
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organisation
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organisation for Standardisation
KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	International Convention for the Prevention of Pollution from Ships
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
REACH	Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
SVHC	Substance of very high concern
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
DS	Dermal Sensitizer

Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitiser
RS	Respiratory Sensitiser
S	Sensitizer
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption
Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

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
Chronic aquatic toxicity	Calculation method
Acute 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)
 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)
 U.S. 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

Issuing Date

06/10/2026

Supersedes date	9/7/2018
Revision date	06/10/2026
Reason for revision	Updated as per GHS
Restrictions on use	For professional use only

This SDS 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