Material Safety Data Sheet

According to Regulation (EC) No. 1907/2006

Issued on Dec 01, 2025
Version: 1.0
Printed on Dec 01, 2025

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name: TERPSICH (Prosulfocarb 800 g/L)
Unique Formula Identifier (UFI): U88Y-WC28-P08F-NEU9

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

Crop protection product for professional use. Agriculture.
Herbicide

1.3 Details of the manufacturer of the safety data sheet

Manufacturer: YC Agro Limited
Address: Mynshull House, 78 Churchgate, Stockport, Cheshire, England SK1 1YJ, UK
Tel No.: +44 7548 954737
E-mail: director@ycagro.com, ycagro@yanchengchem.com

1.4 Emergency telephone number

For futher advice for medical professionals:
The National Poisons Information Service: +44 7548 954737

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Eye irritation - Category 2 - H319
Skin sensitization - Category 1 - H317
Aspiration hazard - Category 1 - H304
Short-term (acute) aquatic hazard - Category 1 - H400
Long-term (chronic) aquatic hazard -Category 1 - H410
Skin irritation - Category 2 - H315

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 [CLP]
Hazard label for supply/use required.
Pictograms

Signal word

Danger

Hazard Statement (s)

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210	Keep away from heat/ sparks/ open flames/ hot surfaces and other ignition sources. No smoking.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection /hearing protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P391	Collect spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

EUH-statements

EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION INFORMATION

3.1 Substances

Not applicable.

3.2 Mixtures

Chemical nature

Emulsifiable concentrate (EC)

Prosulfocarb 800 g/L

Hazardous components

Hazard statements according to Regulation (EC) No. 1272/2008

Name	CAS-No. EC-No.	Classification (EC)1272/2008 (CLP)	Concentration (%)
Prosulfocarb (ISO)	52888-80-9 401-730-6	Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 70 - < 90
Hydrocarbons, C9, aromatics	Not Assigned	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 10 - < 20
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts	1335202-81-7 932-231-6	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 3 - < 10
2-ethylhexan-1-ol	104-76-7 203-234-3	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system)	>= 1 - < 10

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.

If inhaled

Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre immediately.

In case of skin contact

Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

In case of eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

If swallowed

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

Aspiration may cause pulmonary oedema and pneumonitis.

Risks

Harmful if swallowed. May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

There is no specific antidote available. Treat symptomatically. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Flash back possible over considerable distance.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear full protective clothing and self-contained breathing apparatus.

Further information:

Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions

Refer to protective measures listed in sections 7 and 8. Keep people away from and upwind of spill/leak. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition. Pay attention to flashback.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up: Contain spillage, and then collect with non-combustible ab sorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

6.4 Reference to other sections

For disposal considerations see section 13.

Refer to protective measures listed in sections 7 and 8.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes. When using do not eat, drink or smoke. Use only in an area containing flame proof equipment. Take precautionary measures against static discharges. For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from combustible material. Keep in an area equipped with sprinklers. Keep away from food, drink and animal feedingstuff. No smoking.

7.3 Specific end use(s)

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Components	CAS No.	Value type (Form of exposure)	Control parameters
Prosulfocarb (ISO)	52888-80-9	TWA	4 mg/m3
Hydrocarbons, C9, aromatics	Not Assigned	TWA	19 ppm 100 mg/m3
2-ethylhexan-1-ol	104-76-7	TWA	1 ppm

			5.4 mg/m3
	Further information: Indicative		

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
Hydrocarbons, C9, aromatics	Workers	Inhalation	Long-term systemic effects	150 mg/m3
	Workers	Dermal	Long-term systemic effects	25 mg/kg
	Consumers	Inhalation	Long-term systemic effects	32 mg/m3
	Consumers	Dermal	Long-term systemic effects	11 mg/kg
	Consumers	Oral	Long-term systemic effects	11 mg/kg
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts	Consumers	Oral	Long-term systemic effects	89 mg/kg
	Consumers	Dermal	Long-term systemic effects	85 mg/kg
	Workers	Dermal	Long-term systemic effects	1.7 mg/kg
2-ethylhexan-1-ol	Consumers	Ingestion	Long-term systemic effects	1.1 mg/kg
	Workers	Dermal	Long-term systemic effects	23 mg/kg
	Consumers	Dermal	Long-term systemic effects	11.4 mg/kg
	Workers	Inhalation	Acute local effects	106.4 mg/m3
	Consumers	Inhalation	Acute local effects	53.2 mg/m3
	Workers	Inhalation	Long-term systemic effects	53.2 mg/m3
	Consumers	Inhalation	Long-term systemic effects	2.3 mg/m3

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Benzenesulfonic acid, C10-13-	Fresh water	0.023 mg/l

alkyl derivs., calcium salts		
	Marine water	0.002 mg/l
	Fresh water sediment	0.174 mg/kg
	Marine sediment	0.017 mg/kg
	Soil	0.62 mg/kg
2-ethylhexan-1-ol	Fresh water	0.017 mg/l
	Marine water	0.0017 mg/l
	Intermittent use/release	0.17 mg/l
	Fresh water sediment	28 mg/kg
	Marine sediment	0.028 mg/kg
	Sewage treatment plant	10 mg/kg
	Soil	0.047 mg/kg

8.2 Exposure controls

Engineering measures

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards.

Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Respiratory protection

No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Material Nitrile rubber

Break through time > 480 min

Glove thickness > 0.5 mm

Remarks: Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration

the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection

Tightly fitting safety goggles. Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Remove and wash contaminated clothing before re-use. Wear as appropriate: Impervious clothing.

Protective measures

The use of technical measures should always have priority over the use of personal protective equipment.
When selecting personal protective equipment, seek appropriate professional advice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Pale yellow
Odour	Aromatic
Odour threshold	No data available
pH	6 (1 % w/v)
Melting point	No data available
Freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	73 °C
Evaporation rate	No data available
Flammability (solid,gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Density	1012 g/cm³ (25 °C)
Solubility (ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	380 °C
Decomposition temperature	No data available
Viscosity	
Viscosity, dynamic	No data available

Viscosity, kinematic	No data available
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.

10. STABILITY AND REACTIVITY

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

No decomposition if used as directed.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if swallowed

Product

Acute oral toxicity

Acute toxicity estimate: 1,327 mg/kg

Method: Calculation method

Acute inhalation toxicity

Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h

Test atmosphere: vapour

Method: Calculation method

Acute dermal toxicity

LD50 (Rat, male and female): > 4,000 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity

Remarks: Based on data from similar materials

Components

Prosulfocarb (ISO)

Acute oral toxicity

LD50 (Rat, male): 1,049 mg/kg

Acute inhalation toxicity
LC50 (Rat, male and female): > 4.72 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity
LD50 (Rabbit, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Hydrocarbons, C9, aromatics
Acute oral toxicity
LD50 (Rat): 3,492 mg/kg
Acute inhalation toxicity
LC50 (Rat): > 6,193 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity
LD50 (Rabbit): > 3,160 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts
Acute oral toxicity
LD50 (Rat): 4,445 mg/kg
Acute dermal toxicity
LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

2-ethylhexan-1-ol
Acute oral toxicity
LD50 (Rat): 2,047 mg/kg
Acute inhalation toxicity
LC50 (Rat): > 0.89 - 5.3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The component/mixture is moderately toxic after short term inhalation.
Acute dermal toxicity
LD50 (Rat): > 3,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified due to lack of data.

Components
Not classified due to lack of data.
Prosulfocarb (ISO)
Species: Rabbit
Result: No skin irritation
Hydrocarbons, C9, aromatics
Result: No skin irritation.
Result: Repeated exposure may cause skin dryness or cracking.
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts
Species: Rabbit
Result: Irritating to skin.
2-ethylhexan-1-ol:
Species: Rabbit
Result: Irritating to skin.

Serious eye damage/eye irritation
Causes serious eye irritation.
Product
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days
Remarks: Based on data from similar materials

Components
Prosulfocarb (ISO):
Species: Rabbit
Result: No eye irritation
Hydrocarbons, C9, aromatics
Result: No eye irritation
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts
Species: Rabbit
Result: Risk of serious damage to eyes.
2-ethylhexan-1-ol
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days

Respiratory or skin sensitisation
Skin sensitisation
May cause an allergic skin reaction.

Respiratory sensitisation
Not classified due to lack of data
Product
Test Type: Buehler Test
Species: Guinea pig
Result: May cause sensitisation by skin contact.
Remarks: Based on data from similar materials
Components
Prosulfocarb (ISO)
Test Type: Local lymph node assay (LLNA)
Species: Mouse
Result: The product is a skin sensitiser, sub-category 1B.
Hydrocarbons, C9, aromatics
Result: Does not cause skin sensitisation.
2-ethylhexan-1-ol
Species: Humans
Result: Not a skin sensitizer.

Germ cell mutagenicity
Not classified due to lack of data.
Components
Prosulfocarb (ISO)
Germ cell mutagenicity- Assessment:Animal testing did not show any mutagenic effects.
hydrocarbons, C9, aromatics
Germ cell mutagenicity- Assessment: Weight of evidence does not support classification as a germ cell mutagen.
2-ethylhexan-1-ol
Germ cell mutagenicity- Assessment: Animal testing did not show any mutagenic effects.

Carcinogenicity
Not classified due to lack of data.
Components
Prosulfocarb (ISO):
Carcinogenicity - Assessment: No evidence of carcinogenicity in animal studies.
hydrocarbons, C9, aromatics
Carcinogenicity - Assessment: Weight of evidence does not support classification as a carcinogen
2-ethylhexan-1-ol
Carcinogenicity - Assessment: No evidence of carcinogenicity in animal studies.

Reproductive toxicity
Not classified due to lack of data.
Components:
Prosulfocarb (ISO):
Reproductive toxicity - Assessment: Weight of evidence does not support classification for reproductive toxicity
hydrocarbons, C9, aromatics
Reproductive toxicity - Assessment: Weight of evidence does not support classification for reproductive toxicity. No effects on or via lactation.
2-ethylhexan-1-ol
Reproductive toxicity - Assessment: No toxicity to reproduction. No effects on or via lactation

Assessment STOT Specific target organ toxicity – single exposure
Not classified due to lack of data.
Components
Hydrocarbons, C9, aromatics
Target Organs: respiratory tract irritation
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.
2-ethylhexan-1-ol
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Assessment STOT Specific target organ toxicity – repeated exposure
Not classified due to lack of data.
Components
Prosulfocarb (ISO)
Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Hydrocarbons, C9, aromatics
Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
2-ethylhexan-1-ol
Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity
May be fatal if swallowed and enters airways.
Components
Hydrocarbons, C9, aromatics
May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Product

Toxicity to fish
LC50 (Oncorhynchus mykiss (rainbow trout)): 3 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates
EC50 (Daphnia magna (Water flea)): 2.2 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants
ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.18 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.010 mg/l
End point: Growth rate
Exposure time: 96 h
Remarks: Based on data from similar materials

Components

Prosulfocarb (ISO)

Toxicity to fish
LC50 (Oncorhynchus mykiss (rainbow trout)): 0.84 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates
EC50 (Daphnia magna (Water flea)): 0.51 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants
ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.120 mg/l
Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.009 mg/l
End point: Growth rate
Exposure time: 72 h

ErC50 (Desmodesmus subspicatus (green algae)): 0.180 mg/l
Exposure time: 72 h
EC10 (Desmodesmus subspicatus (green algae)): 0.082 mg/l
End point: Growth rate
Exposure time: 72 h

M-Factor (Acute aquatic toxicity): 1
Toxicity to fish (Chronic tox icity)
EC10: 0.063 mg/l
Exposure time: 32 d
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)
NOEC: 0.045 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

Hydrocarbons, C9, aromatics
Toxicity to fish
LC50 (Oncorhynchus mykiss (rainbow trout)): 9.2 mg/l
Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates
EC50 (Daphnia magna (Water flea)): 3.2 mg/l
Exposure time: 48 h
Toxicity to algae/aquatic plants
ErC50 (Raphidocelis subcapitata (freshwater green alga)): 2.9 mg/l
Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)): 1 mg/l
End point: Growth rate
Exposure time: 72 h

Toxicity to fish (Chronic toxicity): NOEC: 1.23 mg/l
Exposure time: 28 d
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)
NOEC: 2.14 mg/l
Exposure time: 21 d
Species: Daphnia (water flea)

Ecotoxicology Assessment
Chronic aquatic toxicity
Toxic to aquatic life with long lasting effects.
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts
Toxicity to fish
LC50 (Fish): > 1 - < 10 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates
EC50 (Daphnia magna (Water flea)): 2.9 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants
ErC50 (Raphidocelis subcapitata (freshwater green alga)): 29 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.5 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity)
NOEC: 0.23 mg/l
Exposure time: 72 d
Species: Oncorhynchus mykiss (rainbow trout)
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)
NOEC: 1.18 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Remarks: Based on data from similar materials

2-ethylhexan-1-ol:
Toxicity to fish
LC50 (Leuciscus idus (Golden orfe)): 17.1 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 39 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants
EC50 (Desmodesmus subspicatus (green algae)): 16.6 mg/l
Exposure time: 72 h

12.2 Persistence and degradability

Biodegradability

Prosulfocarb (ISO)

Biodegradability: Not readily biodegradable.
Stability in water: Degradation half life: 159 - 279 d
Remarks: Persistent in water.

Hydrocarbons, C9, aromatics

Biodegradability: Readily biodegradable.

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts

Biodegradability: Readily biodegradable.

2-ethylhexan-1-ol

Biodegradability: Readily biodegradable.

12.3 Bioaccumulative potential

Bioaccumulation

Prosulfocarb (ISO): Bioaccumulates.

12.4 Mobility in soil

Prosulfocarb (ISO)

Distribution among environmental compartments
Remarks: Slightly mobile in soils
Stability in soil
Dissipation time: 35 d
Percentage dissipation: 50 % (DT50)
Remarks: Product is not persistent.

12.5 Results of PBT and vPvB assessment

Product: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components

Prosulfocarb (ISO): Substance is not persistent, bioaccumulative, and toxic (PBT). Substance is not very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

Endocrine disrupting properties

Product: The substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Product:

Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging:

Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

ADR/RID/ADN

14.1 UN number	UN 3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROSULFOCARB, SOLVENT NAPHTHA)
14.3 Transport hazard class(es)	9
14.4 Packaging Group	III
14.5 Environm. Hazardous Mark	YES
Tunnel Code	-

IMDG

14.1 UN number	UN 3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROSULFOCARB, SOLVENT NAPHTHA)
14.3 Transport hazard class(es)	9
14.4 Packaging Group	III
14.5 Marine pollutant	YES

IATA

14.1 UN number	UN 3082
14.2 Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (PROSULFOCARB, SOLVENT NAPHTHA)
14.3 Transport hazard class(es)	9
14.4 Packaging Group	III

14.5 Environm. Hazardous Mark YES

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to IMO instruments

Not applicable for product as supplied.

15. REGULATORY INFORMATION

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

15.1.1. EU-Regulations

Supply and Use

UK REACH List of restrictions (Annex 17): Conditions of restriction for the following entries should be considered: Number on list 3

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation: Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable

UK REACH List of substances subject to authorisation (Annex XIV): Not applicable

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation: Not applicable

Control of Major Accident Hazards Regulations 2015 E1 (COMAH): ENVIRONMENTAL HAZARDS

Further information

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

16. OTHER INFORMATION

Full text of H-Statements

H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

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.
H336: May cause drowsiness or dizziness.
H400: Very toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

Disclaimer:

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The manufacture provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. The manufacture makes no representations or express or implied, including without limitation any warranties of merchantability fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, the manufacture will not be responsible for damages resulting from use of or reliance upon this information.

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