

Product Envirofloc 133
 Revision date 15 September 2022
 Revision 1



Safety Data Sheet (SDS)
 according to Regulation (EC) No. 1907/2006

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

1.1 Product identifier

Product name Envirofloc 133
Product no. 260
Other means of identification No information available.

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

Identified uses Used in wastewater treatment.
 For industrial use only.
Uses advised against Any other purpose.

1.3 Details of the supplier of the safety data sheet

Supplier ENVA UK Limited
 Enviro Building
 Private Road 4 Colwick Industrial Estate
 Nottingham NG4 2JT
 United Kingdom
 Tel: + 44 01928 513355
 SDSrequest@enva.com
Contact person

1.4 Emergency telephone number

Emergency telephone 00353 (0)57 867 8600
National emergency telephone number Members of the public, UK: NHS 111 (England), NHS 24 (Scotland) or NHS Direct (Wales).
 Healthcare professionals, UK: +44 0344 892 0111.

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)
 Physical and chemical hazards Not classified
 Human health Eye Irrit.2A - H319
 Environment Not classified

2.2 Label elements

Contains Alcohols, C12-18, ethoxylated

Label in accordance with (EC) no. 1272/2008



Signal word Warning

Hazard statements H319 Causes serious eye irritation.

Precautionary statements **Prevention**
 P264 Wash thoroughly after handling.
 P280 Wear protective gloves/ protective clothing/eye protection/face protection.
Response

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.

2.3 Other hazards

None known.

Section 3: Composition/information on ingredients

3.1 Substance

Not applicable.

3.2 Mixtures

Name	Product identifier	Regulation (EC) No 1272/2008	%
Alkanes, C16-20-iso-	CAS-No.: 90622-59-6 EC No.: 292-461-1	Asp. Tox - H304	>= 15 - < 25%
Alcohols, C12-18, ethoxylated	CAS-No.: 68213-23-0 EC No.: 500-201-8	Eye Dam. 1 - H318, Aquatic Acute 1 - H400, Aquatic Chronic 3 - H412	>= 1 - < 2.5%

The full text for all hazard statements are displayed in section 16.

Composition comments

The data shown is in accordance with (EC) No 1907/2006, as amended by UK SI 2019/758.

Section 4: First aid measures

4.1 Description of first aid measures

General information	As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. Provide general first aid, rest, warmth and fresh air. Show this safety data sheet or product label to medical personnel. Do not leave affected person unattended.
Inhalation	Remove patient to fresh air, allow to rest and keep warm. If the person is unconscious, place in recovery position. If the exposed person is not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. If symptoms persist, call a physician.
Skin contact	Remove contaminated clothes. Wash skin thoroughly with soap and water. Get medical attention if irritation develops.
Eye contact	Avoid contaminating unaffected eye. Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Prolonged inhalation of fog or mist may be irritating to nose and throat.
Ingestion	Ingestion may cause gastrointestinal irritation with nausea, vomiting and diarrhea.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to the physician	Treat symptomatically.
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Section 5: Firefighting measures

5.1 Extinguishing media

Extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	High volume water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	During fire, gases hazardous to health may be formed. Combustion products may include and are not limited to: Oxides of carbon. Oxides of Nitrogen.
Unusual fire & explosion hazards	If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.
Specific hazards	No specific hazards are identified for the product.

5.3 Advice for firefighters

Special fire fighting procedures	Avoid breathing fire vapours. Keep up-wind to avoid fumes. Fight advanced or massive fires from safe distance or protected location. Ventilate closed spaces before entering them. Water spray should be used to cool containers. Do not allow run-off from fire fighting to enter drains or water courses.
Protective equipment for firefighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Wear protective clothing as described in Section 8 of this safety data sheet. Ensure adequate ventilation. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material.
For emergency responders	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

6.2 Environmental precautions

Environmental precautions	Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.
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6.3 Methods and material for containment and cleaning up

Spill clean up methods	Wear appropriate personal protective equipment as specified in Section 8. Stop leak if possible without risk. Absorb spillage with non-combustible, inert absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Thoroughly clean surrounding area. Wash thoroughly after dealing with a spillage.
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6.4 Reference to other sections

Reference to other sections	See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.
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Section 7: Handling and storage

7.1 Precautions for safe handling

Handling	Use proper personal protection when handling (refer to Section 8). Avoid inhalation of vapours and contact with skin and eyes. Do not eat, drink or smoke when using the product. Remove contaminated work clothing and personal protective equipment before leaving the work area. Always wash hands after handling. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous.
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7.2 Conditions for safe storage, including any incompatibilities

Storage precautions	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from incompatible materials (see section 10). Keep upright, locked up and out of reach of children. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class	Chemical storage

7.3 Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.
Usage description	Use only according to directions. Replace and tighten cap after use.

Section 8: Exposure controls/Personal protection**8.1 Control parameters**

Ingredient comments	No exposure limits noted for ingredient(s). UK Workplace Exposure Limits, EH40/2005 (Fourth Edition 2020).
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8.2 Exposure Controls**Protective equipment**

Engineering measures	Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below recommended or statutory limits.
Respiratory equipment	No personal respiratory protective equipment normally required. Where risk assessment shows air-purifying respirators are appropriate use a full face respirator conforming to EN143. Use type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).
Hand protection	Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. (Suggested suitable materials for longer, direct contact or splash contact) Nitrile rubber. Minimum layer thickness: 0.7 mm. Breakthrough time: >480 minutes. Consult manufacturer for specific advice. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Change gloves regularly.
Eye protection	Wear safety glasses if there is risk of eye contact. Safety glasses with side-shields conforming to EN166.
Other protection	Protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. The selected clothing must satisfy the European norm standard EN 943. Use personal protective equipment tested and approved under appropriate government standards such as CE (EU) or UKCA (GB).
Hygiene measures	Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke during use.
Process conditions	Ensure that eye flushing systems and safety showers are located close by in the work place.

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

Appearance	Liquid.
Colour	White
Odour	Hydrocarbon.
Odour threshold - lower	No information available as testing has not been completed.
Odour threshold - upper	No information available as testing has not been completed.
pH-Value, Conc. Solution	ca. 3,7 (20 °C) Concentration: 10 g/l
pH-Value, Diluted solution	No information available as testing has not been completed.
Melting point	-15 °C
Initial boiling point and boiling range	> 98 °C

Flash point	> 100 °C
Evaporation rate	< 1. n-Butyl Acetate
Flammability state	No information available as testing has not been completed.
Flammability limit - lower(%)	0,6 %(V) Calculated Explosive Limit
Flammability limit - upper(%)	7 %(V) Calculated Explosive Limi
Vapour pressure	< 35 hPa (20 °C)
Vapour density (air=1)	ca. 1,03 g/cm ³ (20 °C)
Relative density	No information available as testing has not been completed.
Bulk density	Not applicable as the product is a liquid.
Solubility	Soluble in water.
Decomposition temperature	No information available as testing has not been completed.
Partition coefficient; n-Octanol/Water	No information available as testing has not been completed.
Auto ignition temperature (°C)	> 100 °C
Viscosity	Viscosity, dynamic : < 3.000 mPa.s (20 °C). Viscosity, kinematic : > 20,5 mm ² /s (40 °C).
Explosive properties	Not classified as explosive. If product is heated above its flash point it will produce vapors sufficient to support combustion.
Oxidising properties	The product does not meet the criteria to be classified as oxidising.

9.2 Other information

Molecular weight	The product is a mixture, molecular weight data is not required.
Volatile organic compound	No information available as testing has not been completed.
Other information	None noted.

Section 10: Stability and reactivity

10.1 Reactivity

Reactivity	Stable under recommended transport and storage conditions and under recommended use. See section 10.3 for further information.
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10.2 Chemical stability

Stability	Stable product under recommended storage and handling conditions.
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10.3 Possibility of hazardous reactions

Hazardous reactions	Will react with acids and oxidizers
Hazardous polymerisation	Will not polymerise.
Polymerisation description	Not applicable.

10.4 Conditions to Avoid

Conditions to avoid	Avoid extremes of temperature. Avoid heat, sparks, open flames and other ignition sources.
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10.5 Incompatible materials

Materials to avoid	Strong oxidising substances. Strong acids.
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10.6 Hazardous decomposition products

Hazardous decomposition products When heated, vapours/gases hazardous to health may be formed. Combustion products may include and are not limited to: Oxides of carbon. Nitrogen oxides (NOx).

Section 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008**

Toxicological information	Not classified based on available information.
Acute toxicity (Oral LD50)	>2000.00mg/kg Mouse
Acute toxicity (Dermal LD50)	No information available as testing has not been completed.
Acute toxicity (Inhalation LD50)	No information available as testing has not been completed.
Serious eye damage/irritation	Causes serious eye irritation.
Skin corrosion/irritation	The product is not classified as a skin corrosion/irritation hazard.
Respiratory sensitisation	The product is not classified as a respiratory hazard.
Skin sensitisation	The product is not classified as a skin sensitisation hazard.
Germ cell mutagenicity	The product is not classified as a mutagen.
Carcinogenicity	The product is not classified as a carcinogen hazard.
Specific target organ toxicity - Single exposure:	
STOT - Single exposure	The product is not classified as a single exposure specific target organ toxin.
Specific target organ toxicity - Repeated exposure:	
STOT - Repeated exposure	The product is not classified as a repeat exposure specific target organ toxin.
Inhalation	Prolonged inhalation of fog or mist may be irritating to nose and throat.
Ingestion	Ingestion may cause gastrointestinal irritation with nausea, vomiting and diarrhea.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	Causes serious eye irritation.
Waste management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
Routes of entry	Eyes, skin, ingestion or inhalation.
Target organs	Eyes.
Aspiration hazards:	The product is not classified as an aspiration hazard.
Reproductive toxicity:	The product is not classified as a reproductive hazard.

Name	LD50 oral	LD50 dermal	LD50 inhalation
Alkanes, C16-20-iso-	>10000.00mg/kg Rat	>2000.00mg/kg Rat	
Alcohols, C12-18, ethoxylated	>2000.00mg/kg Rat	>2000.00mg/kg Rabbit	

11.2 Information on other hazards

Information on other hazards None known.

Section 12: Ecological information**12.1 Toxicity**

Acute toxicity - Fish	LC50 96 Hours 10.60 ppm Pimephales promelas (Fat-head Minnow)
Acute toxicity - Aquatic invertebrates	No information available as testing has not been completed.
Acute toxicity - Aquatic plants	No information available as testing has not been completed.
Acute toxicity - Microorganisms	No information available as testing has not been completed.
Chronic toxicity - Fish	No information available as testing has not been completed.
Chronic toxicity - Aquatic invertebrates	No information available as testing has not been completed.
Chronic toxicity - Aquatic plants	No information available as testing has not been completed.
Chronic toxicity - Microorganisms	No information available as testing has not been completed.
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude

the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

Eco toxicological information

No ecological toxicity data available for the overall finished product.

12.2 Persistence and degradability

Degradability

The product can be eliminated from water by abiotic processes, e.g. adsorption on activated sludge. At natural pHs (>6), the polymer degrades due to the hydrolysis to more than 70% in 28 days.

Biological oxygen demand

No information available as testing has not been completed.

Chemical oxygen demand

No information available as testing has not been completed.

12.3 Bioaccumulative potential

Bioaccumulative potential

The bioaccumulation potential cannot be determined.

Bioaccumulation factor

No information available as testing has not been completed.

Partition coefficient; n-

No information available as testing has not been completed.

Octanol/Water

12.4 Mobility in soil

Mobility

The product is miscible with water. May spread in water systems.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment The product does not contain any PBT or vPvB Substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties

The product does not contain any substances with endocrine disrupting properties at a concentration above or equal to 0.1%.

12.7 Other adverse effects

Other adverse effects

None known.

Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
Alkanes, C16-20-iso-	LC50 96 Hours >0.03mg/l Brachydanio rerio (Zebra Fish)	EC50 48 Hours >0.08mg/l Daphnia magna	NOEC 72 Hours >0.02mg/l Scenedesmus Subspicatus
Alcohols, C12-18, ethoxylated	LC50 96 Hours 0.88mg/l Brachydanio rerio (Zebra Fish)	EC50 48 Hours 1.00mg/l Daphnia magna	EC50 72 Hours 0.41mg/l Scenedesmus Subspicatus

Section 13: Disposal considerations

Waste management

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1 Waste treatment methods

Disposal methods

Dispose of waste and residues in accordance with local authority requirements, and in accordance with all local, national and international regulations. For waste disposal, use a licensed industrial waste disposal agent.

Section 14: Transport information

14.1 UN number or ID number

UN no. (ADR)

Not applicable.

UN no. (IMDG)

Not applicable.

UN no. (IATA)

Not applicable.

14.2 UN proper shipping name

ADR proper shipping name	Not applicable.
IMDG proper shipping name	Not applicable.
IATA proper shipping name	Not applicable.

14.3 Transport hazard class(es)

ADR class	Not applicable.
IMDG class	Not applicable.
IATA class	Not applicable.

Transport labels	Not applicable
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14.4 Packing group

ADR/RID/ADN packing group	Not applicable.
IMDG packing group	Not applicable.
IATA packing group	Not applicable.

14.5 Environmental hazards

ADR	No
IMDG	No
IATA	No

14.6 Special precautions for user

EMS	Not applicable.
Emergency action code	Not applicable.
Hazard no. (ADR)	Not applicable.
Tunnel restriction code	Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Section 15: Regulatory information**15.1 Safety, health and environmental regulations/Legislation specific for the substance or mixture**

Legislation	REACH etc. (Amendment etc.) (EU Exit) Regulations 2020. Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019.
Approved code of practice	EH40/2005 Workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations 2002 (as amended). [Fourth Edition, 2020].

15.2 Chemical safety assessment

Chemical safety assessment	No chemical safety assessment has been carried out.
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Section 16: Other information

General information	REACH etc. (Amendment etc.) (EU Exit) Regulations 2020. Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019. EH40/2005 Workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations 2002 (as amended). [Fourth Edition, 2020].
Revision comments	This is a first issue.
Revision date	15 September 2022
Revision	1
Safety data sheet status	Approved.

Hazard statements in full

H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

H319

Causes serious eye irritation.

Disclaimer

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use. Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.