
SAFETY DATA SHEET

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	Acrylonitrile multi-copolymer binder (LA133)
CAS No.	Not applicable
EC No.	Not applicable
REACH Registration No.	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration.

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

Identified Use(s)	PC21 Laboratory chemicals
Uses Advised Against	No data available

1.3 Details of the supplier of the safety data sheet

Company:	Redoxme AB
Address:	Box 5002 Kungsgatan 41 600 05 Norrköping SWEDEN
Telephone:	+46 700 89 62 86
E-mail:	info@redox.me

1.4 Emergency telephone number

Emergency Phone No.	112
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Carcinogenicity (Category 1B), H350
Germ cell mutagenicity (Category 1B), H340

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

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Hazard Pictogram(s)



Signal Word(s)	Danger
Hazard Statement(s)	
H340	May cause genetic defects.
H350	May cause cancer.

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Precautionary Statement(s)

P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P280	Wear protective gloves.
P308 + P313	IF exposed or concerned: Get medical advice/ attention
P405	Store locked up.

2.3 Other hazards

No data available

2.4 Additional Information

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.

SECTION 3: Composition/information on ingredients**3.1 Mixtures**

INGREDIENT(S)	CAS No.	EC No.	%W/V	Hazard Statement(s)	Comments
Polyacrylonitrile	25014-41-9	-	14.5-15.5%	-	-
Acrylonitrile	107-13-1	203-466-5	<= 0.3%	Flam. Liq. 2; Acute Tox. 3; Skin Irrit. 2; Eye Dam. 1; Skin Sens. 1; Carc.1B; Repr. 2; STOT SE3; Aquatic Chronic 2; H225, H301, H331, H311, H315, H318, H317, H350, H361, H335, H411	Substance with existing exposure limits, The use of the substance is restricted by Annex XVII of REACH Regulation
Acrylamide	79-06-1	201-173-7	<= 0.5%	Carc.1B; Muta.1B; Repr. 2; Acute Tox. 3; STOT RE1; Acute Tox. 4; Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1; H350, H340, H361f, H301, H372, H332, H312, H319, H315, H317	SVHC, Substance with existing exposure limits, The use of the substance is restricted by Annex XVII of REACH Regulation

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

SECTION 4: First aid measures**4.1 Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

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Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Skin Contact	Wash off with soap and plenty of water.
Eye Contact	Flush eyes with plenty of water for at least 15 minutes. Consult a physician.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable Extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	None.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment (section 8). Avoid breathing vapours, mist or gas. Ensure room is well ventilated.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain and clean up spill if safe to do so using saw dust or absorbent mats. Dispose of in suitable closed container according to local regulations.

6.4 Reference to other sections

For disposal see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid formation of gases and vapours. Avoid inhalation of vapour or mist. Provide appropriate exhaust ventilation. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry and well-ventilated place inside of a tightly sealed container. Reseal containers that have been opened and keep upright to prevent leakage. Store locked up.

Storage temperature	Ambient
Storage life	Stable under recommended storage conditions.
Incompatible materials	No data available

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Contains substances with occupational exposure limit values.

INGREDIENT	CAS No.	LTEL (8h TWA)	Note
Acrylonitrile	107-13-1	2 ppm 4.4 mg/m ³	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity
Acrylamide	79-06-1	0,3 mg/m ³	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity

Source

UK Workplace Exposure Limits EH40/2005 (Third edition, published 2018)

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial/laboratory practices hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.2.2. Personal protection equipment



Eye Protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).



Skin protection

Handle with gloves. Gloves must be inspected prior to use. 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. Wash and dry hands.

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Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

8.2.3. Environmental Exposure Controls

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid
	Colour: Beige
Odour	No data available
Odour threshold	No data available
pH	7-9
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash Point	No data available
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
Density (g/ml)	No data available
Relative density	No data available
Solubility	Solubility (Water): No data available Solubility (Other): No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition Temperature (°C)	No data available
Viscosity	≥ 7300 mPa.S, 40°C
Explosive properties	No data available
Oxidising properties	No data available

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

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10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Excess heat, flames and sparks.

10.5 Incompatible materials

Strong acids, strong bases, oxidizing agents, copper.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: Carbon oxides, Nitrogen oxides (NO_x)

Other decomposition products: No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity - Ingestion	No data available
Acute toxicity - Skin Contact	No data available
Acute toxicity - Inhalation	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Skin sensitization data	No data available
Respiratory sensitization data	No data available
Germ cell mutagenicity	May alter genetic material.
Carcinogenicity	Possible human carcinogen IARC:2B-Group 2B: Possibly carcinogenic to humans (Acrylonitrile) IARC:2A-Group 2A: Probably carcinogenic to humans (Acrylamide)
Reproductive toxicity	No data available
Lactation	No data available
STOT - single exposure	No data available
STOT - repeated exposure	No data available
Aspiration hazard	Inhalation of solvent vapours above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

11.2 Other information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

No data available

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12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

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.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations and directives on waste and hazardous waste. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

Not applicable

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

ADR/RID: No

IMDG: Not classified as marine pollutant

IATA: No

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14.6 Special precautions for user

No data available

SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Authorisations and/or restrictions on use

REACH -Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	Acrylamide
REACH -Candidate List of Substances of Very High Concern for Authorisation (Article 59)	Acrylamide
REACH -Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	Acrylonitrile

15.2 Chemical safety assessment

No chemical safety report/assessment was carried out for this product.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H312 + H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H340	May cause genetic defects.
H350	May cause cancer.
H361f	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Acronyms

ADR : European Agreement Concerning the International Carriage of Dangerous Goods by Road
CAS : Chemical Abstracts Service
CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL : Derived No Effect Level
EC : European Community

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IARC : International Agency for Research on Cancer
IATA : International Civil Aviation Organization/International Air Transport Association
IMDG - International Maritime Dangerous Goods Code
LTEL : Long term exposure limit
OECD : Organisation for Economic Co-operation and Development
PBT : Persistent, Bioaccumulative, Toxic
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL : Short term exposure limit
STOT : Specific Target Organ Toxicity
SVHC : Substances of Very High Concern
TWA : Time-Weighted Average
vPvB : very Persistent, very Bioaccumulative

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Redoxme AB shall not be held liable for any damage resulting from handling or from contact with the above product. Freedom under Patents, Copyright and Designs cannot be assumed.