We create chemistry

Safety data sheet

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

1.1. Product identifier

Laromer® PE 9126

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

Relevant identified uses: Raw material, Raw material for coatings for industrial or professional use, UV acrylic varnish

1.3. Details of the supplier of the safety data sheet

Company:
BASF SE
67056 Ludwigshafen
GERMANY

Contact address:
BASF plc
PO Box 4, Earl Road, Cheadle Hulme,
Cheadle, Cheshire
SK8 6QG, UNITED KINGDOM

Telephone: +44 161 485-6222
E-mail address: product-safety-north@basf.com

1.4. Emergency telephone number

International emergency number:
Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Skin Corr./Irrit. 2

Eye Dam./Irrit. 1
Skin Sens. 1
Aquatic Chronic 3

H318, H315, H317, H412

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:

Signal Word:
Danger

Hazard Statement:

H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P264	Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (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.
P310	Immediately call a POISON CENTER or doctor/physician.
P303 + P352	IF ON SKIN (or hair): Wash with plenty of soap and water.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.

Labeling of special preparations (GHS):
Product contains the following components and may cause an allergic skin reaction: MEQUINOL

According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: DIPROPYLENEGLYCOLDIACRYLATE, PENTAERYTHRITOL DERIVATIVE

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

Preparation based on: acrylic ester

Hazardous ingredients (GHS)
according to Regulation (EC) No. 1272/2008

Oxybis(methyl-2,1-ethanediyl) diacrylate

Content (W/W): >= 10 % - < 20 %	Skin Corr./Irrit. 2
CAS Number: 57472-68-1	Eye Dam./Irrit. 1
EC-Number: 260-754-3	Skin Sens. 1
REACH registration number: 01-2119484629-21	H318, H315, H317

1,3-Propanediol, 2,2-bis(hydroxymethyl)-, reaction products with 1-chloro-2,3-epoxypropane, reaction products with acrylic acid

Content (W/W): >= 10 % - < 15 %	Skin Sens. 1B
CAS Number: 57903-73-8	Aquatic Chronic 2
	H317, H411

Tetrabutylammonium bromide

Content (W/W): >= 1 % - < 3 %	Skin Corr./Irrit. 2
CAS Number: 1643-19-2	Eye Dam./Irrit. 2
EC-Number: 216-699-2	STOT SE 3 (irr. to respiratory syst.)
	H319, H315, H335

acrylic acid; prop-2-enoic acid

Content (W/W): >= 0.3 % - < 1 %	Flam. Liq. 3
CAS Number: 79-10-7	Acute Tox. 4 (Inhalation - vapour)
EC-Number: 201-177-9	Acute Tox. 4 (oral)
REACH registration number: 01-2119452449-31	Acute Tox. 4 (dermal)
	Skin Corr./Irrit. 1A
	Eye Dam./Irrit. 1
	Aquatic Acute 1
	Aquatic Chronic 2
	M-factor acute: 1
	H226, H312, H332, H302, H314, H411, H400
	Specific concentration limit:
	STOT SE 3, irr. to respiratory syst.: >= 1 %

sulphuric acid...%

Content (W/W): >= 0.3 % - < 1 %	Skin Corr./Irrit. 1A
CAS Number: 7664-93-9	Eye Dam./Irrit. 1
EC-Number: 231-639-5	H314
REACH registration number: 01-2119458838-20	Specific concentration limit:
INDEX-Number: 016-020-00-8	Skin Corr./Irrit. 2: 5 - < 15 %
	Eye Dam./Irrit. 2: 5 - < 15 %
	Skin Corr./Irrit. 1A: >= 15 %

mequinol; 4-methoxyphenol; hydroquinone monomethyl ether

Content (W/W): >= 0.2 % - < 0.3 %	Acute Tox. 4 (oral)
CAS Number: 150-76-5	Eye Dam./Irrit. 2
EC-Number: 205-769-8	Skin Sens. 1
INDEX-Number: 604-044-00-7	H319, H302, H317

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Immediately remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:
Wash thoroughly with soap and water.

On contact with eyes:
Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:
Rinse mouth and then drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

4.3. Indication of any immediate medical attention and special treatment needed
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media
Suitable extinguishing media:
water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:
water jet

5.2. Special hazards arising from the substance or mixture
harmful vapours
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters
Special protective equipment:
Wear a self-contained breathing apparatus.

Further information:
The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Breathing protection required.

6.2. Environmental precautions
Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up
For large amounts: Pump off product.
For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

6.4. Reference to other sections
Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling
No special measures necessary provided product is used correctly.

Protection against fire and explosion:
Heated containers should be cooled to prevent polymerization. Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities
Further information on storage conditions: Protect against heat. Protect from the effects of light. The stabilizer is only effective in the presence of oxygen. Avoid UV-light and other radiation with high energy.

Protect from temperatures above: 45 °C

7.3. Specific end use(s)
For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

7664-93-9: sulphuric acid...%
TWA value 0.05 mg/m3 (WEL/EH 40 (UK))
TWA value 0.05 mg/m3 (OEL (EU)), Mist indicative

8.2. Exposure controls

Personal protective equipment

Respiratory protection:
Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:
Chemical resistant protective gloves (EN 374)
Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN 374)
butyl rubber (butyl) - 0.7 mm coating thickness
nitrile rubber (NBR) - 0.4 mm coating thickness
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.
Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:
Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

Environmental exposure controls
For information regarding environmental exposure controls, see Section 6.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	liquid, highly viscous
Colour:	yellow to brown
Odour:	acrylic-like
Odour threshold:	Not determined due to potential health hazard by inhalation.
pH value:	5.0 - 7.0 (1 g/l, 20 °C)
solidification temperature:	not determined

Boiling point:		
	(1,013.25 hPa) The statements are based on the properties of the individual components. The substance / product decomposes.	
Flash point:	120 °C	(DIN EN 22719; ISO 2719, closed cup)
Evaporation rate:		
	not determined	
Flammability:	Product is combustible.	
Lower explosion limit:		(DIN 51649-1)
	(103.7 °C) The lower explosion point of the substance/mixture has been determined. The explosion point describes the temperature of a flammable liquid at which the concentration of the saturated vapour mixed with air equals the lower explosion limit.	
Upper explosion limit:		
	Study technically not feasible., The substance / product decomposes therefore not determined.	
Ignition temperature:	384 °C	(DIN EN 14522)
Vapour pressure:	3.53 hPa (20 °C) 14.19 hPa (50 °C)	
Density:	1.11 g/cm3 (20 °C)	(ISO 2811-3)
	1.09 g/cm3 (55 °C)	(ISO 2811-3)
Relative density:	approx. 1.11 (20 °C)	
Relative vapour density (air):		
	not determined	
Solubility in water:		
	0.048 g/l	
Solubility (qualitative) solvent(s):	organic solvents soluble	
Partitioning coefficient n-octanol/water (log Kow):		
	Study does not need to be conducted.	
Self ignition:	not self-igniting	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	10,000 - 20,000 mPa.s (23 °C)	

Viscosity, kinematic:	approx. 2,190 mm2/s (40 °C)
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating

9.2. Other information

Hygroscopy:	Non-hygroscopic
Surface tension:	No data available.
Grain size distribution:	The substance / product is marketed or used in a non solid or granular form.

SECTION 10: Stability and Reactivity

10.1. Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: Corrosive effects to metal are not anticipated.

10.2. Chemical stability
The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions
The product can polymerize if the shelf life or storage temperature are greatly exceeded. Heat develops during polymerization. Reacts with peroxides and other radical components.
The product is stabilized against spontaneous polymerization prior to despatch.

10.4. Conditions to avoid
Avoid extreme heat. Avoid UV-light and other radiation with high energy. See MSDS section 7 - Handling and storage.

10.5. Incompatible materials

Substances to avoid:
peroxides, free radical initiators

10.6. Hazardous decomposition products

Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Experimental/calculated data:
LD50 rat (oral): > 5,000 mg/kg
The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

LC50 rat (by inhalation): 4 h
not determined

LD50 rat (dermal): > 5,000 mg/kg
The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Information on: Oxybis(methyl-2,1-ethanediyl) diacrylate
Experimental/calculated data:
LC50 rat (by inhalation): 7 h (IRT)
Inhalation-risk test (IRT): No mortality within 7 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Analogous: Assessment derived from products with similar chemical character.

Irritation

Experimental/calculated data:
Skin corrosion/irritation rabbit: Irritant.
The product has not been tested. The statement has been derived from the properties of the individual components.

Serious eye damage/irritation rabbit: irreversible damage
The product has not been tested. The statement has been derived from the properties of the individual components.

Respiratory/Skin sensitization

Assessment of sensitization:
May cause sensitization by skin contact. The product has not been tested. The statement has been derived from the properties of the individual components.

Germ cell mutagenicity

Assessment of mutagenicity:
The chemical structure does not suggest a specific alert for such an effect. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Carcinogenicity

Assessment of carcinogenicity:
No data available.

Reproductive toxicity

Assessment of reproduction toxicity:
The chemical structure does not suggest a specific alert for such an effect. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Developmental toxicity

Assessment of teratogenicity:
No data available.

Specific target organ toxicity (single exposure)

Remarks: No data available.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:
No data available.

Aspiration hazard

No aspiration hazard expected.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:
Toxic to aquatic life. Harmful to aquatic life with long lasting effects. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Toxicity to fish:
LC50 (96 h) > 1.0 - 10 mg/l, Fish
The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Aquatic invertebrates:
LC50 (48 h) > 100 mg/l, Daphnia magna
The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Aquatic plants:
EC50 (72 h) > 10 - 100 mg/l, Scenedesmus subspicatus

The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Microorganisms/Effect on activated sludge:
EC50 (0.5 h) > 100 mg/l, bacteria
The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Chronic toxicity to fish:
No data available.

Chronic toxicity to aquatic invertebrates:
No data available.

Information on: Oxybis(methyl-2,1-ethanediyl) diacrylate
Toxicity to fish:
LC50 (96 h) 2.2 - 4.6 mg/l, Leuciscus idus (DIN 38412 Part 15, static)
The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

Information on: (OLIGOMER) Pentaerythritol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with acrylic acid
Toxicity to fish:
LC50 (96 h) 1.76 mg/l, Brachydanio rerio (OECD Guideline 203, semistatic)
The statement of the toxic effect relates to the analytically determined concentration. The product has low solubility in the test medium. A saturated solution has been tested. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Assessment of terrestrial toxicity:
No data available concerning terrestrial toxicity.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O):
Not readily biodegradable (by OECD criteria). Moderately/partially biodegradable.

Information on: Oxybis(methyl-2,1-ethanediyl) diacrylate
Assessment biodegradation and elimination (H2O):
Readily biodegradable (according to OECD criteria).

Information on: (OLIGOMER) Pentaerythritol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with acrylic acid
Assessment biodegradation and elimination (H2O):
Not readily biodegradable (by OECD criteria). Moderately/partially biodegradable.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested.

12.4. Mobility in soil

Assessment transport between environmental compartments:
Volatility: No data available.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.7. Additional information

Add. remarks environm. fate & pathway:
Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).
This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

Contaminated packaging:
Uncontaminated packaging can be re-used.
Packs that cannot be cleaned should be disposed of in the same manner as the contents.

SECTION 14: Transport Information

Land transport

ADR

Not classified as a dangerous good under transport regulations

UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

RID

Not classified as a dangerous good under transport regulations

UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Inland waterway transport

ADN

Not classified as a dangerous good under transport regulations

UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Air transport

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

14.1. UN number
See corresponding entries for “UN number” for the respective regulations in the tables above.

14.2. UN proper shipping name
See corresponding entries for “UN proper shipping name” for the respective regulations in the tables above.

14.3. Transport hazard class(es)
See corresponding entries for “Transport hazard class(es)” for the respective regulations in the tables above.

14.4. Packing group
See corresponding entries for “Packing group” for the respective regulations in the tables above.

14.5. Environmental hazards
See corresponding entries for “Environmental hazards” for the respective regulations in the tables above.

14.6. Special precautions for user
See corresponding entries for “Special precautions for user” for the respective regulations in the tables above.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

SECTION 15: Regulatory Information

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

15.2. Chemical Safety Assessment

Chemical Safety Assessment not yet performed due to registration timelines

SECTION 16: Other Information

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Sens.	Skin sensitization
Aquatic Chronic	Hazardous to the aquatic environment - chronic
STOT SE	Specific target organ toxicity — single exposure
Flam. Liq.	Flammable liquids
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment - acute
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.

If you have any queries relating to this MSDS, it's contents or any other product safety related questions, please write to the following e-mail address: product-safety-north@basf.com

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.