

# SAFETY DATA SHEET **Loxeal 59-10**

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

# 1.1. Product identifier

Loxeal 59-10 Product name

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

Identified uses Adhesive. Sealant.

# 1.3. Details of the supplier of the safety data sheet

Supplier Loxeal s.r.l.

> Via Marconato 2 Cesano Maderno 20811 (MB)

Italia

Tel: +39 0362 529 301 Fax +39 0362 524 225 info@loxeal.com

# 1.4. Emergency telephone number

National emergency telephone CHEMTREC UK: +(44)-870-8200418 number CHEMTREC US: 800-424-9300

CHEMTREC Australia: +(61)-290372994 CHEMTREC New Zealand: +(64)-98010034

# SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Not Classified Physical hazards

Health hazards Skin Sens. 1 - H317

**Environmental hazards** Aquatic Chronic 3 - H412

### 2.2. Label elements

# Hazard pictograms



Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** P280 Wear protective clothing, gloves, eye and face protection.

P273 Avoid release to the environment.

P302+P352a IF ON SKIN: Wash with plenty of soap and water

**Contains** N,N-(m-PHENYLENE)DIMALEIMIDE

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# Supplementary precautionary statements

P264 Wash contaminated skin thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/ attention. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/ container in accordance with national regulations.

#### 2.3. Other hazards

This product contains N,N-(m-phenylene)dimaleimide which, in powder form, is classified as very toxic by inhalation. When present in solution, as in this case, such exposure can be excluded under normal working conditions and so this product is not labelled as such. However, if during use, there is a possibility that an aerosol mist may be formed then appropriate measures must be taken to exclude exposure by inhalation.

# SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

#### N,N-(m-PHENYLENE)DIMALEIMIDE 5-10%

CAS number: 3006-93-7 REACH registration number: 01-EC number: 221-112-8

2120756106-57-XXXX

#### Classification

Acute Tox. 4 - H302 Acute Tox. 2 - H330 Skin Sens. 1A - H317 Aquatic Chronic 2 - H411

DODECYL METHACRYLATE 1-5%

CAS number: 142-90-5 EC number: 205-570-6 REACH registration number: 01-

2119489778-11-XXXX

Classification

STOT SE 3 - H335

#### <1% **CUMENE HYDROPEROXIDE**

CAS number: 80-15-9 EC number: 201-254-7 REACH registration number: 01-

2119475796-19-XXXX

Classification

Org. Perox. E - H242

Acute Tox. 4 - H302

Acute Tox. 4 - H312

Acute Tox. 3 - H331

Skin Corr. 1B - H314

Eye Dam. 1 - H318

STOT SE 3 - H335

STOT RE 2 - H373

Aquatic Chronic 2 - H411

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ETHANEDIOL <1%

CAS number: 107-21-1 EC number: 203-473-3 REACH registration number: 01-

2119456816-28-XXXX

Classification

Acute Tox. 4 - H302 STOT RE 2 - H373

The full text for all hazard statements is displayed in Section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

**Inhalation** Move the exposed person to fresh air. Get medical attention if any discomfort continues.

**Ingestion** Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get

medical attention.

Skin contact Wash skin thoroughly with soap and water. If symptoms develop, obtain medical attention

Eye contact Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes

with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get

medical attention if any discomfort continues.

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

**Skin contact** Skin irritation. Mild dermatitis, allergic skin rash.

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

**Notes for the doctor**No specific recommendations. Treat symptomatically.

# SECTION 5: Firefighting measures

# 5.1. Extinguishing media

Suitable extinguishing media Foam, carbon dioxide or dry powder.

Unsuitable extinguishing

media

products

for firefighters

Water.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous combustion

Burning produces irritating, toxic and obnoxious fumes. Carbon monoxide, carbon dioxide,

and unknown hydrocarbons.

### 5.3. Advice for firefighters

Special protective equipment

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

# SECTION 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

# 6.2. Environmental precautions

**Environmental precautions** Not considered to be a significant hazard due to the small quantities used. Avoid discharge

into drains.

### 6.3. Methods and material for containment and cleaning up

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Methods for cleaning up Absorb spillage with sand or other inert absorbent. Transfer to suitable, labelled containers for

disposal.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Usage precautions Avoid contact with skin and eyes. Do not ingest or inhale. Do not eat, drink or smoke when

using this product.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in closed original container at temperatures between 5°C and 25°C. Never return

unused material to storage receptacle.

7.3. Specific end use(s)

Specific end use(s)

This product is not recommended for use in joints which will be in contact with either pure

oxygen or steam.

**Usage description** Adhesive. Sealant.

# SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

# Occupational exposure limits

#### **ETHANEDIOL**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

Sk

Long-term exposure limit (8-hour TWA): WEL 20 ppm 52 mg/m³ vapour Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m³ vapour

Sk

WEL = Workplace Exposure Limit. Sk = Can be absorbed through the skin.

#### N,N-(m-PHENYLENE)DIMALEIMIDE (CAS: 3006-93-7)

**DNEL** Workers - Inhalation; Long term systemic effects: 0.176 mg/m³

Workers - Dermal; Long term systemic effects: 0.05 mg/kg/day

PNEC Fresh water; 0.01 mg/l

marine water; 0.001 mg/l

STP; 0.051 mg/l

Sediment (Freshwater); 0.035 mg/kg Sediment (Marinewater); 0.035 mg/kg

Soil; 0.063 mg/kg

# **CUMENE HYDROPEROXIDE (CAS: 80-15-9)**

**DNEL** Workers - Inhalation; Long term systemic effects: 6 mg/m³

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PNEC Workers - Fresh water; 0.0031 mg/l

Workers - marine water; 0.00031 mg/l Workers - Intermittent release; 0.031 mg/l Workers, Industry - Soil; 1.2 mg/kg

Workers - STP; 0.35 mg/l

Workers - Sediment (Freshwater); 0.023 mg/kg Workers - Sediment (Marinewater); 0.0023 mg/kg

Workers - Soil; 0.0029 mg/kg

### ETHANEDIOL (CAS: 107-21-1)

**DNEL** Workers - Inhalation; Long term local effects: 35 mg/m³

Workers - Dermal; Long term systemic effects: 106 mg/kg/day

PNEC Fresh water; 10 mg/l

marine water; 1 mg/l STP; 199.5 mg/l

Sediment (Freshwater); 37 mg/kg Sediment (Marinewater); 3.7 mg/kg

Soil; 1.53 mg/kg

#### WHITE MINERAL OIL (PETROLEUM) (CAS: 8042-47-5)

**DNEL** Workers - Inhalation; Long term systemic effects: 160 mg/m³

Workers - Dermal; Long term local effects: 220 mg/kg/day

**PNEC** Technically not feasible.

#### 8.2. Exposure controls

# Protective equipment







Appropriate engineering controls

Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

The following protection should be worn: Chemical splash goggles or face shield. Personal eye protection should conform to EN 166

Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. Gloves should conform to EN 374. For exposure up to 4 hours, wear gloves made of the following material: Nitrile rubber. Thickness: ≥ 0.4 mm The selected gloves should have a breakthrough time of at least 0.5 hours. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber. Thickness: ≥ 0.4 mm The selected gloves should have a breakthrough time of at least 8 hours. The breakthrough time for any glove material may be different for different glove manufacturers. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

Other skin and body protection

Employee must wear appropriate protective clothing and equipment to prevent any possibility of skin contact with this substance.

Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Use of good industrial hygiene practices is required.

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#### Respiratory protection

Ensure adequate ventilation of the working area. Respiratory protection may be required if excessive airborne contamination occurs. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Organic vapour filter. Type A. (EN14387)

# SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Coloured paste. **Appearance** 

Colour Red. Odour Acrylic

Odour threshold Not available. pН Not relevant. Melting point Not available. Not applicable. Initial boiling point and range

>100°C Flash point

**Evaporation rate** Not available. Upper/lower flammability or

explosive limits

Not available.

Vapour pressure Not available. Vapour density Not available.

Relative density

Solubility(ies) Slightly soluble in water. Miscible with the following materials: Organic solvents.

Partition coefficient Not available. **Auto-ignition temperature** Not available. **Decomposition Temperature** Not available.

≈200000 mPa s @ 25°C Thixotropic Viscosity

Oxidising properties Not available.

9.2. Other information

Not relevant. Other information

# SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity The following materials may react with the product: Strong oxidising agents.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

There are no known reactivity hazards associated with this product.

# 10.4. Conditions to avoid

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**Conditions to avoid** Avoid the absence of air, and metal contamination.

10.5. Incompatible materials

Materials to avoid Metals and their salts. Free radical initiators.

10.6. Hazardous decomposition products

Hazardous decomposition

Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified

**products** organic compounds.

# SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Toxicological effects**The mixture is classified based on the available hazard information for the ingredients as

defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the

substances listed under Section 3 is provided in the following.

Aspiration hazard

**Aspiration hazard** None under normal conditions.

**Inhalation** May cause respiratory system irritation.

Ingestion No harmful effects expected from quantities likely to be ingested by accident.

**Skin contact** May cause sensitisation by skin contact.

Toxicological information on ingredients.

#### N,N-(m-PHENYLENE)DIMALEIMIDE

Acute toxicity - oral

Acute toxicity oral (LD₅o

500.0

mg/kg)

Species Rat

Acute toxicity - inhalation

Acute toxicity inhalation

0.089

(LC<sub>50</sub> dust/mist mg/l)

**Species** Rat

Skin corrosion/irritation

**Human skin model test** Cell Viability 3.3 60 minutes Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation

Not irritating.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Sensitising.

Germ cell mutagenicity

**Genotoxicity - in vitro**Gene mutation: Negative.

Carcinogenicity

Carcinogenicity No information available.

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Reproductive toxicity

Reproductive toxicity - Screening - NOAEL 240 mg/kg/day, Oral, Rat P

fertility

Specific target organ toxicity - single exposure

**STOT - single exposure** No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

**Aspiration hazard** No information available.

DODECYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

5,000.0

**Species** Rat

Skin corrosion/irritation

Animal data Slightly irritating.

Serious eye damage/irritation

Serious eye

Not irritating.

damage/irritation

Skin sensitisation

**Skin sensitisation** Not sensitising.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity -

/ -

Screening - NOEL >= 1000 mg/kg/day, Oral, Rat F1

fertility

**CUMENE HYDROPEROXIDE** 

Acute toxicity - oral

Acute toxicity oral (LD50

328.0

1.37

mg/kg)

**Species** Rat

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 1,200.0

mg/kg)

Species Rat

Acute toxicity - inhalation

Acute toxicity inhalation

(LC<sub>50</sub> dust/mist mg/l)

# **Loxeal 59-10**

**Species** Rat

Skin corrosion/irritation

Animal data Highly irritating.

Serious eye damage/irritation

Serious eye Irritating to eyes.

damage/irritation

Skin sensitisation

**Skin sensitisation** Not sensitising.

Germ cell mutagenicity

**Genotoxicity - in vitro** Positive.

**Genotoxicity - in vivo** This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity CMR: No

Reproductive toxicity

Reproductive toxicity -

No specific test data are available.

Reproductive toxicity -

development

fertility

Developmental toxicity: - NOAEL: ≥100 mg/kg/day, Oral, Rat

Specific target organ toxicity - single exposure

STOT - single exposure No specific test data are available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Toxic: danger of serious damage to health by prolonged exposure through

inhalation.

Aspiration hazard

Aspiration hazard No specific test data are available.

**ETHANEDIOL** 

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 3,500.0

mg/kg)

Species Mouse

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) No information available.

Skin corrosion/irritation

**Skin corrosion/irritation** Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye Based on available data the classification criteria are not met.

damage/irritation

Skin sensitisation

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**Skin sensitisation** Based on available data the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro**Gene mutation: Negative.

**Genotoxicity - in vivo** Chromosome aberration: Negative.

Carcinogenicity

**Carcinogenicity** No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Reproductive toxicity -

fertility

Three-generation study - NOAEL >1000 mg/kg/day, Oral, Rat F1

Reproductive toxicity -

development

Developmental toxicity: - NOAEC: 150 mg/m³, Inhalation, Rat

Specific target organ toxicity - single exposure

**STOT - single exposure** No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

**Aspiration hazard** No information available.

# SECTION 12: Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

12.1. Toxicity

**Toxicity** The mixture is classified based on the available hazard information for the ingredients as

defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the

substances listed under Section 3 is provided in the following.

# Ecological information on ingredients.

# N,N-(m-PHENYLENE)DIMALEIMIDE

Acute aquatic toxicity

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 31.6 mg/l, Daphnia magna

# **DODECYL METHACRYLATE**

Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: >10000 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: > 2 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 96 hours: > 0.09 mg/l, Freshwater algae

Acute toxicity - microorganisms

EC₅o, 180 minutes: > 10 g/L, Activated sludge

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#### **CUMENE HYDROPEROXIDE**

Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hour: 3.9 mg/l, Oncorhynchus mykiss (Rainbow trout)

**ETHANEDIOL** 

Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 72860 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: > 100 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 96 hours: 6500 - 13000 mg/l, Selenastrum capricornutum

Acute toxicity -

microorganisms

EC<sub>20</sub>, 0.5 hour: 1.995 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - fish early NOEC, 7 days: 15380 mg/l, Pimephales promelas (Fat-head Minnow)

life stage

Chronic toxicity - aquatic

invertebrates

NOEC, 7 days: 8590 mg/l, Daphnia magna

# 12.2. Persistence and degradability

Persistence and degradability No data available.

Ecological information on ingredients.

# **CUMENE HYDROPEROXIDE**

The substance is readily biodegradable. Biodegradation

**ETHANEDIOL** 

Biodegradation Water - Degradation 90 - 100%: 10 days

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

12.4. Mobility in soil

Mobility No data available.

Ecological information on ingredients.

# DODECYL METHACRYLATE

No data available. Mobility

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

This product does not contain any substances classified as PBT or vPvB.

assessment

12.6. Other adverse effects

Other adverse effects None known.

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# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

General information Waste disposal should be in accordance with existing Community, National and local

regulations Empty containers may contain product residue; follow SDS and label warnings

even after they have been emptied.

**Disposal methods**Do not empty into drains, dispose of this material and its container at hazardous or special

waste collection point.

Waste class 08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous

substances.

# SECTION 14: Transport information

**General** The product is not classified as dangerous for carriage.

# 14.1. UN number

Not applicable.

# 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

Not applicable.

#### 14.4. Packing group

Not applicable.

# 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

# 14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

# SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009

No. 716).

**EU legislation** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation,

Authorisation and Restriction of Chemicals (REACH)

# **Loxeal 59-10**

Guidance Workplace Exposure Limits EH40.

CHIP for everyone HSG228.

Approved Classification and Labelling Guide (Sixth edition) L131.

Safety Data Sheets for Substances and Preparations.

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

# SECTION 16: Other information

Revision date 31/08/2021

Revision 8

Supersedes date 09/11/2020

Hazard statements in full H242 Heating may cause a fire.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled. H331 Toxic if inhaled.

H335 May cause respiratory irritation.

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

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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.