

# SAFETY DATA SHEET Loxeal 55-37

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

## 1.1. Product identifier

Product name Loxeal 55-37

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

**Identified uses** Adhesive.

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

Supplier

Loxeal s.r.l. Via Marconato 2 Cesano Maderno 20811 (MB) Italia

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

## 1.4. Emergency telephone number

Emergency telephone Italia +39 02 66101029 (Centro Antiveleni Niguarda di Milano)

#### SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Not Classified

## 2.2. Label elements

## **Pictogram**



Signal word Warning

Hazard statements H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

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

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

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

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

Contains 2-HYDROXYETHYL METHACRYLATE

Revision date: 23/12/2015 Revision: 3 Supersedes date: 31/07/2014

#### Loxeal 55-37

Supplementary precautionary statements

P264 Wash contaminated skin thoroughly after handling.

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 existing Community, National and

local regulations.

## 2.3. Other hazards

None under normal conditions.

# SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

2-PHENOXYETHYL METHACRYLATE 10-30%

CAS number: 10595-06-9 EC number: 234-201-1

Classification Classification (67/548/EEC or 1999/45/EC)

Skin Irrit. 2 - H315 Xi;R36/38.

Eye Irrit. 2 - H319

2-HYDROXYETHYL METHACRYLATE 10-30%

CAS number: 868-77-9 EC number: 212-782-2 REACH registration number: 01-

2119490169-29-XXXX

Classification Classification (67/548/EEC or 1999/45/EC)

Skin Irrit. 2 - H315 R43 Xi;R36/38

Eye Irrit. 2 - H319 Skin Sens. 1 - H317

CUMENE HYDROPEROXIDE 1-<2.5%

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

2119475796-19-XXXX

Classification Classification (67/548/EEC or 1999/45/EC)

Org. Perox. E - H242 O;R7 T;R23 C;R34 Xn;R21/22,R48/20/22 N;R51/53

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 3 - H331

Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT RE 2 - H373

Aquatic Chronic 2 - H411

ETHANEDIOL <1%

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

2119456816-28-XXXX

Classification Classification (67/548/EEC or 1999/45/EC)

Acute Tox. 4 - H302 Xn;R22

STOT RE 2 - H373

Revision date: 23/12/2015 Revision: 3 Supersedes date: 31/07/2014

#### Loxeal 55-37

ACRYLIC ACID <1%

CAS number: 79-10-7 EC number: 201-177-9 REACH registration number: 01-

2119452449-31-XXXX

M factor (Acute) = 1

Classification Classification (67/548/EEC or 1999/45/EC)

Flam. Lig. 3 - H226 R10 C;R35 Xn;R20/21/22 N;R50

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 Aquatic Acute 1 - H400

ETHYLENE DIMETHACRYLATE <1%

CAS number: 97-90-5 EC number: 202-617-2 REACH registration number: 01-

2119965172-38-XXXX

Classification Classification (67/548/EEC or 1999/45/EC)

Skin Sens. 1 - H317 R43 Xi;R37

STOT SE 3 - H335

The Full Text for all R-Phrases and Hazard Statements are 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 Remove contaminated clothing. 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.

**Eye contact** Irritating and may cause redness and pain.

# 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

Do not use water jet as an extinguisher, as this will spread the fire.

media

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

Hazardous combustion

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

products

and unknown hydrocarbons.

5.3. Advice for firefighters

Special protective equipment

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

for firefighters 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

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 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. Protect against

direct sunlight. 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.

# SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

## Occupational exposure limits

#### **ETHANEDIOL**

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

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

Sk

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

## 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

Nitrile rubber or Viton™ gloves are recommended. Cotton or other absorbent gloves should not be worn. Gloves should conform to EN 374. 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.

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.

Respiratory protection No specific recommendations. Respiratory protection may be required if excessive airborne

contamination occurs.

#### **SECTION 9: Physical and Chemical Properties**

## 9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Red.

Odour Slight pungent.

Odour threshold Not available.

**pH** Not relevant.

Melting point Not available.

Initial boiling point and range Not applicable.

Flash point >100°C

**Evaporation rate** Not available.

Upper/lower flammability or

explosive limits

Not available.

Vapour pressure Not available.

Vapour density Not available.

Relative density 1.1

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

**Auto-ignition temperature** Not available.

**Decomposition Temperature** Not available.

Viscosity ≈3500 mPa s @ 25°C

Oxidising properties Not available.

#### 9.2. Other information

Other information Not relevant.

# SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous

There are no known reactivity hazards associated with this product.

reactions

10.4. Conditions to avoid

Conditions to avoid Avoid the absence of air, and metal contamination. Protect against direct sunlight.

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 toxicological properties of this product have not been fully evaluated. Avoid direct contact

with skin or eyes. Do not ingest or inhale.

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** Irritating to skin. May cause sensitisation by skin contact.

**Eye contact** Irritating to eyes.

#### 2-HYDROXYETHYL METHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 5,000.0

mg/kg)

Species Rat

**ATE oral (mg/kg)** 5,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 3,000.0

mg/kg)

Revision date: 23/12/2015 Revision: 3 Supersedes date: 31/07/2014

## **Loxeal 55-37**

Rabbit **Species** 

ATE dermal (mg/kg) 3,000.0

**CUMENE HYDROPEROXIDE** 

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

382.0

**Species** Rat

500.0 ATE oral (mg/kg)

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

ATE inhalation (vapours

mg/l)

3.0

Skin corrosion/irritation

Animal data Highly irritating.

Serious eye damage/irritation

Serious eye

Irritating to eyes.

damage/irritation

Skin sensitisation

Skin sensitisation Not sensitising.

**ACRYLIC ACID** 

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

1,405.0

**Species** Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,000.0

mg/kg)

Rabbit **Species** 

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation

3.6

(LC50 dust/mist mg/l)

**Species** Rat

ATE inhalation 3.6

(dusts/mists mg/l)

Carcinogenicity

Revision date: 23/12/2015 Revision: 3 Supersedes date: 31/07/2014

## **Loxeal 55-37**

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity -

fertility

- NOAEL 460 mg/l, Oral, Rat P, F1

Reproductive toxicity -

development

Fetotoxicity: - NOAEC: >= 0.673 mg/l, Inhalation, Rabbit

# ETHYLENE DIMETHACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

8,300.0

**Species** Rat

ATE oral (mg/kg) 8,300.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,000.1

mg/kg)

**Species** Rat

ATE dermal (mg/kg) 2,000.1

Skin corrosion/irritation

Animal data Not irritating.

Serious eye damage/irritation

Serious eye

Not irritating.

damage/irritation

Skin sensitisation

Skin sensitisation Sensitising.

# SECTION 12: Ecological Information

**Ecotoxicity** The product is not expected to be hazardous to the environment.

12.1. Toxicity

No data available. **Toxicity** 

## 2-HYDROXYETHYL METHACRYLATE

LC₅₀, 96 hours: > 100 mg/l, Oryzias latipes (Red killifish) Acute toxicity - fish

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 380 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 836 mg/l, Selenastrum capricornutum NOEC, 72 hours: 400 mg/l, Selenastrum capricornutum

Acute toxicity -EC<sub>50</sub>, 16 hours: > 3000 mg/l, Pseudomonas fluorescens

microorganisms

Revision date: 23/12/2015 Revision: 3 Supersedes date: 31/07/2014

## **Loxeal 55-37**

Chronic toxicity - aquatic

NOEC, 21 days: 24.1 mg/l, Daphnia magna

invertebrates

## **CUMENE HYDROPEROXIDE**

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

## **ACRYLIC ACID**

Acute aquatic toxicity

LE(C)50  $0.1 < L(E)C50 \le 1$ 

M factor (Acute)

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 222 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic

LC<sub>50</sub>, 24 hours: 270 mg/l, Daphnia magna invertebrates EC<sub>50</sub>, 48 hours: 95 mg/l, Daphnia magna

Acute toxicity - aquatic

plants EC₅o, 96 hours: 0.17 mg/l, Pseudokirchneriella subcapitata

EC<sub>20</sub>, 30 minutes: 900 mg/l, Activated sludge Acute toxicity -

microorganisms

Chronic toxicity - aquatic

invertebrates

NOEC, 21 days: 19 mg/l, Daphnia magna

#### ETHYLENE DIMETHACRYLATE

EC<sub>50</sub>, 72 hours: 0.04 mg/l, Desmodesmus subspicatus

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 44.9 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

NOEC, 96 hours: 0.804 mg/l, Pseudokirchneriella subcapitata

Acute toxicity microorganisms EC<sub>50</sub>, 180 minutes: 570 mg/l, Activated sludge

Chronic toxicity - aquatic

invertebrates

EC<sub>50</sub>, 21 days: >5.05 mg/l, Daphnia magna

## 12.2. Persistence and degradability

Persistence and degradability No data available.

## 2-HYDROXYETHYL METHACRYLATE

Biodegradation Water - Degradation 84%: 28 days

## **CUMENE HYDROPEROXIDE**

**Biodegradation** The substance is readily biodegradable.

# **ACRYLIC ACID**

**Biodegradation** Water - Degradation 81%: 28 days

## 12.3. Bioaccumulative potential

Revision date: 23/12/2015 Revision: 3 Supersedes date: 31/07/2014

## Loxeal 55-37

Bioaccumulative potential No data available on bioaccumulation.

## 2-HYDROXYETHYL METHACRYLATE

Bioaccumulative potential BCF: 1.34 - 1.54,

**ACRYLIC ACID** 

Partition coefficient log Kow: 0.46

12.4. Mobility in soil

**Mobility** No data available.

## 2-HYDROXYETHYL METHACRYLATE

Adsorption/desorption

coefficient

Water - Koc: 42.7 @ 20°C

## **ACRYLIC ACID**

Surface tension 69.6 mN/m @ 20°C

# 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

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

12.6. Other adverse effects

Other adverse effects None known.

# 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)

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** 23/12/2015

Revision 3

Supersedes date 31/07/2014

Hazard statements in full H226 Flammable liquid and vapour.

H242 Heating may cause a fire.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

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.

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

H400 Very toxic to aquatic life.

H411 Toxic 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.