



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Issue date: 10/12/2020 Revision date: 16/09/2022 Supersedes version of: 10/12/2020 Version: 1.1

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

1.1. Product identifier

Product form : Mixture
Trade name : Crosslinker
Product code : LRC57
Type of product : Crosslinker.

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Binder for coating materials or adhesives for industrial or professional applications.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Leather Repair Company
Unit 22
Argyle Street Factory Estate,
Hull, East Yorkshire, HU3 1HD, England
Tel 44 (0) 1482 606864

help@leatherrepaircompany.com www.leatherrepaircompany.com

1.4. Emergency telephone number

Tel 44 (0)1482 606864 7.30am to 4pm

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

Other hazards which do not result in classification : None known.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

- Comments : There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.
See Section 8 for information on personal protection equipment
- This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : No action shall be taken involving any personal risk or without suitable training.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. Get medical attention if symptoms occur.
- First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Rinse mouth. Remove person to fresh air and keep comfortable for breathing. If material has been ingested and the exposed person is conscious, supply small amounts of water to drink. Do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

- Symptoms/effects after inhalation : No specific data.
- Symptoms/effects after skin contact : No specific data.
- Symptoms/effects after eye contact : No specific data.
- Symptoms/effects after ingestion : No specific data.

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

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

- Explosion hazard : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous decomposition products in case of fire : Thermal decomposition generates : carbon dioxide. carbon monoxide. Nitrogen oxides.

5.3. Advice for firefighters

- Precautionary measures fire : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Firefighting instructions : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Protection during firefighting : 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 firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 provides a basic level of protection in case of chemical incident.
- Other information : No additional information available.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : No action shall be taken involving any personal risk or without suitable training. Evacuate area.

6.1.1. For non-emergency personnel

Emergency procedures : No action shall be taken involving any personal risk or without suitable training. Evacuate area. Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene. Do not touch or walk on the spilled product. Wear personal protective equipment.

6.1.2. For emergency responders

Protective equipment : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2. Environmental precautions

Avoid the dispersion of spilled material, its contact with the ground, waterways, drainage pipes and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

For containment : Stop leak without risks if possible. Move containers from fire area if it can be done without personal risk.

Methods for cleaning up : Stop leak if safe to do so. Move containers from spill area. Avoid the dispersion of spilled material, its contact with the ground, waterways, drainage pipes and sewers. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area.

Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows.

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Dispose of via a licensed waste disposal contractor.

6.4. Reference to other sections

See Heading 1 for emergency contact information. For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13: additional waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear appropriate personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Hygiene measures : Do not eat, drink or smoke in areas where product is used. Wash your hands, forearms and face thoroughly after handling chemicals, before eating, smoking and using the bathroom and at the end of the day. Remove contaminated clothing and protective equipment before entering eating areas. For further information refer to section 8: "Exposure controls/personal protection".

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

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Storage conditions : Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container closed when not in use. Opened containers must be carefully closed and kept upright to avoid leakage. Do not store in unlabelled containers. Use appropriate container to avoid environmental contamination. Protect from low temperatures.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Monitoring methods	
Monitoring methods	If this product contains ingredients with exposure limits, personal, work or biological monitoring may be necessary to determine the effectiveness of ventilation or other control measures and / or the need to wear respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

8.2. Exposure controls

Appropriate engineering controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment:

Safety glasses. Gloves.

Materials for protective clothing:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Hand protection:

If a risk assessment indicates that it is necessary, chemical-resistant and impenetrable gloves should be worn which comply with the approved standards whenever chemical products are handled.

Eye protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin and body protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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Respiratory protection:

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Personal protective equipment symbol(s):



Environmental exposure controls:

Emissions from ventilation equipment or work processes should be verified to ensure that they meet the requirements of environmental protection legislation. In some cases it will be necessary to use smoke scrubbers, filters or modify the design of the process equipment to reduce emissions to an acceptable level.

Other information:

Wash your hands, forearms and face thoroughly after handling chemicals, before eating, smoking and using the bathroom and at the end of the day. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reuse. Verify that eyewash stations and safety showers are close to the workstation location.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: clear. light yellow.
Odour	: characteristic.
Odour threshold	: No data available
pH	: 11 – 12,6
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1,04 – 1,05 @20°C
Solubility	: Miscible with water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 25 – 150 mPa.s
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 0,0001 % Definition according to EU Directive 2004/42/EC: All organic compounds with a boiling point of <= 250 °C at 101,3 kPa
Other properties	: No supplementary information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not considered to be reactive according to our database.

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10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No specific data.

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: The product itself has not been tested. The classification is based on the available information for the individual ingredients.

LRC57

LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 5 mg/l/4h
LC50 Inhalation - Rat (Vapours)	> 20 mg/l/4h

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 11 – 12,6
Additional information	: The product itself has not been tested. The classification is based on the available information for the individual ingredients.
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 11 – 12,6
Additional information	: The product itself has not been tested. The classification is based on the available information for the individual ingredients.
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: The product itself has not been tested. The classification is based on the available information for the individual ingredients.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: The product itself has not been tested. The classification is based on the available information for the individual ingredients.
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: The product itself has not been tested. The classification is based on the available information for the individual ingredients.
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: The product itself has not been tested. The classification is based on the available information for the individual ingredients.
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)

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Additional information	: The product itself has not been tested. The classification is based on the available information for the individual ingredients.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: The product itself has not been tested. The classification is based on the available information for the individual ingredients.
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: The product itself has not been tested. The classification is based on the available information for the individual ingredients.
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Not available.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

12.2. Persistence and degradability

LRC57

Persistence and degradability	Not established.
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12.3. Bioaccumulative potential

LRC57

Bioaccumulative potential	Not established.
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12.4. Mobility in soil

LRC57

Ecology - soil	No additional information available.
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12.5. Results of PBT and vPvB assessment

LRC57

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects	: No Known significant effects or critical hazards.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.
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Waste treatment methods	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Eliminate or minimize waste generation when possible. Residual containers must be recycled. Recycling is preferred to disposal or incineration.
Additional information	: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
Ecology - waste materials	: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number

UN-No. (ADR)	: Not regulated
UN-No. (IMDG)	: Not regulated
UN-No. (IATA)	: Not regulated
UN-No. (ADN)	: Not regulated
UN-No. (RID)	: Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

ADN

Transport hazard class(es) (ADN) : Not regulated

RID

Transport hazard class(es) (RID) : Not regulated

14.4. Packing group

Packing group (ADR)	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No

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Other information : No supplementary information available

14.6. Special precautions for user

Special transport precautions : Transportation within the users' facilities: always transport in closed containers that are vertical and secure, Ensure that the people who transport the product know what to do in case of an accident or spill.

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 0,0001 % Definition according to EU Directive 2004/42/EC: All organic compounds with a boilingpoint of ≤ 250 °C at 101,3 kPa

Directive 2012/18/EU (SEVESO III)

Seveso Additional information : This product is not controlled under Seveso Directive.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

SECTION 16: Other information

Abbreviations and acronyms:

ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
PBT	Persistent Bioaccumulative Toxic

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PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
vPvB	Very Persistent and Very Bioaccumulative
CAS-No.	Chemical Abstract Service number
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
IARC	International Agency for Research on Cancer
VOC	Volatile Organic Compounds
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
ThOD	Theoretical oxygen demand (ThOD)
EC50	Median effective concentration
EN	European Standard
SDS	Safety Data Sheet
LOAEL	Lowest Observed Adverse Effect Level
N.O.S.	Not Otherwise Specified
EC-No.	European Community number
NOAEC	No-Observed Adverse Effect Concentration
OECD	Organisation for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
TLM	Median Tolerance Limit
TRGS	Technical Rules for Hazardous Substances
BLV	Biological limit value
IOELV	Indicative Occupational Exposure Limit Value
WGK	Water Hazard Class

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.