

Safety Data Sheet

REACH regulation (EC) 1907/2006 - 2015/830

MASTIC HYRENE

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

1.1 Product identifier

Product name: MASTIC HYRENE

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

Professional use only

Bituminous glue

1.3 Details of the supplier of the safety data sheet

Supplier:

Axter Ltd, Harbour Landing, Fox's Marina,

The Strand, Wherstead, Ipswich IP2 8NJ

Tel: +44 (0) 1473 724056

Email: info@axterltd.co.uk

Website: www.axter.co.uk

1.4 Emergency telephone:

Axter Ltd - +44 (0) 1473 724056

(this line is open from 8.00 am to 5.30 pm, Monday to Friday).

In the event of a medical enquiry involving this product, members of the public should contact:

NHS 111

a doctor or

a local hospital accident and emergency department.

The NPIS (National Poisons Information Service) helpline is available for enquiries from medical professionals only.

Tel: 0344 892 0111

Section 2: Hazards identification

2.1 Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Flammable liquid, Category 3 (Flam. Liq. 3, H226).

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms:



GHS02

Signal Word:

WARNING

Hazard statements:

H226

Flammable liquid and vapour.

Precautionary statements

Prevention:

P210

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233

Keep container tightly closed.

P240

Ground/bond container and receiving equipment.

P241

Use explosion-proof electrical equipment.

P242

Use only non-sparking tools.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response:

P370 + P378

In case of fire: Use dry powder for extinction.

Precautionary statements - Storage:

P403 + P235

Store in a well-ventilated place. Keep cool.

Precautionary statements - Disposal:

P501

Dispose of contents/container to an approved centre as a hazardous materials

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) \geq 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the

REACH regulations EC 1907/2006.

Section 3: Composition/information on ingredients

3.2. Mixtures

Some substances are in composition because they have VLEP by inhalation:

CAS: 232-490-9 BITUMEN

However, they are safe in this mixture because the VLEP concern hot bitumen vapours. This product is not affected by this hazard.

Composition:

| Identification | (EC) 1272/2008 | Note | % |
|--|---|------|----------------|
| CAS: 8052-42-4 EC: 232-490-9 REACH: 01-2119480172-44 BITUMEN | | [1] | 50 ≤ x % < 100 |
| CAS: 64742-48-9 EC: 919-857-5 REACH: 01-2119463258-33 HYDROCARBON, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC | GHS07, GHS08, GHS02 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 EUH:066 | | 10 ≤ x % < 25 |

Information on ingredients:

[1] Substance for which maximum workplace exposure limits are available.

Section 4: First aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation:

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

Refer the patient to an ophthalmologist, especially if there is any redness, pain or visual impairment.

In the event of splashes or contact with skin:

Remove the contaminated clothing and wash the skin thoroughly with soap and water or a recognized cleaner.

DO NOT use solvents or diluents

In the event of swallowing:

Keep the person exposed at rest. Do not force vomiting. Seek medical attention, showing the label.

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

No data available.

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

No data available.

Section 5: Firefighting measures

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction

In the event of a fire, use:

water with AFFF (Aqueous Film Forming Foam) additive
foam

multipurpose ABC powder

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction

In the event of a fire, do not use:

water jet

water

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.

In the event of a fire, the following may be formed:

carbon monoxide (CO)

carbon dioxide (CO₂)

5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

Use drums to dispose of collected waste in compliance with current regulations.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

Refer to section 13 for waste disposal rules.

Section 7: Handling and storage

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Ensure that there is adequate ventilation, especially in confined areas.

Fire prevention:

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air. Prevent the formation of flammable or explosive concentrations in air and avoid vapour concentrations higher than the occupational exposure limits.

Prevent the accumulation of electrostatic charges with connections to earth.

The mixture can become electrostatically charged: always earth during decanting operations. Wear antistatic shoes and clothing and floors should be electrically conductive.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

Avoid accumulation of electrostatic charges.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Packaging

Always keep in packaging made of an identical material to the original.

Recommended types of packaging:

Vats

Drums

Suitable packaging materials:

Metal

Unsuitable packaging materials:

Plastic

7.3. Specific end use(s)

No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

| CAS | TWA | STEL | Ceiling | Definition | Criteria |
|-----------|-----------------------|------|---------|------------|----------|
| 8052-42-4 | 0.5 mg/m ³ | - | - | A4; BEIP | - |

UK / WEL (Workplace exposure limits, EH40/2005, 2011):

| CAS | TWA | STEL | Ceiling | Definition | Criteria |
|-----------|---------------------|----------------------|---------|------------|----------|
| 8052-42-4 | 5 mg/m ³ | 10 mg/m ³ | - | - | - |

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

HYDROCARBON, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC (CAS: 64742-48-9)

Final use:

Exposure method:

Potential health effects:

DNEL:

Exposure method:

Potential health effects:

DNEL:

Final use:

Exposure method:

Potential health effects:

DNEL:

Exposure method:

Potential health effects:

DNEL:

Exposure method:

Potential health effects:

DNEL:

BITUMEN (CAS: 8052-42-4)

Final use:

Exposure method:

Potential health effects:

DNEL:

Workers.

Dermal contact.

Long term systemic effects.

208 mg/kg body weight/day

Inhalation.

Long term systemic effects.

871 mg of substance/m³

Consumers.

Ingestion.

Long term systemic effects.

125 mg/kg body weight/day

Dermal contact.

Long term systemic effects.

125 mg/kg body weight/day

Inhalation.

Long term systemic effects.

185 mg of substance/m³

Workers.

Inhalation.

Long term local effects.

2.9 mg of substance/m³

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Type of gloves recommended:

Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties:

Impervious gloves in accordance with standard EN374

Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

Respiratory protection

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387:

A2 (Brown)

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General information:

Physical state: Viscous liquid.

Important health, safety and environmental information

pH: Not relevant.
 Boiling point/boiling range: Not specified.
 Flash Point: 40.00 °C.
 Flammability (solid, gas): >230°C
 Explosive properties,
 lower explosivity limit (%): 0,7
 Explosive properties,
 upper explosivity limit (%): 7
 Vapour pressure (50°C): Below 110 kPa (1.10 bar).
 Density: 1.2 g/cm³
 Water solubility: Insoluble.
 Viscosity: 45 000 cP at 23°C
 Melting point/melting range: Not specified.
 Self-ignition temperature: Not specified.
 Decomposition point/
 decomposition range: Not specified.

9.2. Other information

VOC (g/l): 168

Section 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid:

accumulation of electrostatic charges.
heat
flames and hot surfaces

10.5. Incompatible materials

Keep away from:
water

10.6. Hazardous decomposition products

The thermal decomposition may release/form:
carbon monoxide (CO)
carbon dioxide (CO₂)

Section 11: Toxicological information

11.1. Information on toxicological effects

Splashes in the eyes may cause irritation and reversible damage

11.1.1. Substances

Acute toxicity:

HYDROCARBON, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC (CAS: 64742-48-9)

Oral route: LD50 > 5000 mg/kg
Species: Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route: LD50 > 5000 mg/kg
Species: Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)
Species: Rat
OECD Guideline 403 (Acute Inhalation Toxicity)

BITUMEN (CAS: 8052-42-4)

Oral route: LD50 > 5000 mg/kg
Species: Rat

Dermal route: LD50 > 2000 mg/kg
Species: Rabbit

Inhalation route: LC50 > 94.4 mg/l
Species: Rat

Germ cell mutagenicity:

HYDROCARBON, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC (CAS: 64742-48-9)
No mutagenic effect.

Mutagenesis (in vivo):

Negative.
Species: Rat

Mutagenesis (in vitro):

Negative.

Carcinogenicity:

HYDROCARBON, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC (CAS: 64742-48-9)
Carcinogenicity Test: Negative.
No carcinogenic effect.

11.1.2. Mixture

No toxicological data available for the mixture.

Section 12: Ecological information

12.1. Toxicity

12.1.1. Substances

BITUMEN (CAS: 8052-42-4)

Fish toxicity: NOEC \geq 1000 mg/l
Duration of exposure: 21 days

HYDROCARBON, C9-C11, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATIC (CAS: 64742-48-9)

Fish toxicity: Duration of exposure: 96 h
LC50 > 1000 mg/l
Species: *Oncorhynchus mykiss*
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity: Duration of exposure: 48 h
EC50 > 1000 mg/l
Species: *Daphnia magna*
OECD Guideline 202 (*Daphnia* sp. Acute Immobilisation Test)
Species: *Daphnia magna*

Algae toxicity: Duration of exposure: 72 h
ECr50 > 10000 mg/l
Species: *Pseudokirchnerella subcapitata*
OECD Guideline 201 (Alga, Growth Inhibition Test)

12.1.2. Mixtures

Any leaks in drains or waterways must be avoided

12.2. Persistence and degradability

12.2.1. Substances

BITUMEN (CAS: 8052-42-4)

Biodegradability: no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

Section 13: Disposal considerations

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Do not eliminate with household waste.

Do not discard rinsing agents down the drain.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Local arrangements:**Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):**

08 04 09 * waste adhesives and sealants containing organic solvents or other dangerous substances

15 01 10 * packaging containing residues of or contaminated by dangerous substances

Section 14: Transport information

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 - IMDG 2014 - ICAO/IATA 2015).

14.1. UN number

1263

14.2. UN proper shipping name

UN1263=PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

14.3. Transport hazard class(es)

Classification:



3

14.4. Packing group

III

14.5. Environmental hazards

-

14.6. Special precautions for user

| ADR/RID | Class | Code | Pack gr. | Label | Ident. | LQ | Provis. | EQ | Cat. | Tunnel |
|---------|-------|------|----------|-------|--------|-----|---------------------|----|------|--------|
| | 3 | F1 | III | 3 | 30 | 5 L | 163 367 640E 650 | E1 | 3 | D/E |

Not subject to this regulation If Q <450l, see 2.2.3.1.5.1

| IMDG | Class | 2°Label | Pack gr. | LQ | EMS | Provis. | EQ |
|------|-------|---------|----------|-----|---------|--------------------|----|
| | 3 | - | III | 5 L | F-E,S-E | 163 223 367 955 | E1 |

If Q <301l, see 2.3.2.5

| IATA | Class | 2°Label | Pack gr. | Passager | Passager | Cargo | Cargo | note | EQ |
|------|-------|---------|----------|----------|----------|-------|-------|----------------|----|
| | 3 | - | III | 355 | 60 L | 366 | 220 L | A3 A72 A192 | E1 |
| | 3 | - | III | Y344 | 10 L | - | - | A3 A72 A192 | E1 |

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.
For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

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

No data available.

Section 15: Regulatory information

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

Classification and labelling information included in section 2:

The following regulations have been used:

EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.

Labelling for VOCs present in varnishes, paints and in vehicle refinishing products (2004/42/EC):

The permitted European levels of VOC in the ready-to-use product (category IIa) are 600 g/l maximum in 2007 and 500 g/l maximum in 2010.

15.2. Chemical safety assessment

No data available.

Section 16: Other information

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3:

| | |
|--------|---|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H336 | May cause drowsiness or dizziness. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Abbreviations:

DNEL: Derived No-Effect Level

ADR: European agreement concerning the international carriage of dangerous goods by Road.

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

WGK: Wassergefährdungsklasse (Water Hazard Class).

GHS02: Flame

The data contained in this SDS has been supplied as required by the EC REACH Regulation No. 1907/2006 and the EC Regulation No. 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided. Please ensure that it is passed to the appropriate person(s) in your company who are capable of acting on the information.

Disclaimer:

Axter Ltd reserves the right to modify and update this data at any time without prior notice. Only the latest version of this document is valid, available for download at www.axter.co.uk/downloads. Once downloaded, documents are uncontrolled. Users should always confirm they are referring to the latest version prior to use. Further assistance is available from Axter Ltd's Technical Support Team, email: technical@axterltd.co.uk, telephone: 01473 935008.

The intended use of this product should be verified with Axter Ltd prior to adoption to ensure its suitability and compliance with specifications, project requirements, industry regulations, legislation, good practice, installation techniques and all other relevant guidance. The user should ensure all necessary precautions are taken during handling, storage, installation and disposal of the product, and all regulations to guarantee safety of people and the environment are observed. Axter Ltd accepts no liability for non-compliant use of this product.