

Safety Data Sheet

STARCOAT R (Starcoat R)

in accordance with EC 1907/2006 REACH and amendment 2015/830

1.1 Product identifier

| | |
|--------------|------------|
| Product form | Mixture |
| Product name | STARCOAT R |
| Product code | 1962020 |

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

1.2.1. Relevant identified uses

| | |
|----------------------------------|--|
| Industrial/Professional use spec | For professional use only, Industrial |
| Use of the substance/mixture | One component elastomeric, polyurethane based material, extended with pure chemically polymerized black bitumen, for waterproofing any surface |

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Axter Ltd West Road, Ransomes Europark, IPSWICH, Suffolk IP3 9SX
Tel: +44 (0) 1473 724056, email: info@axterltd.co.uk, www.axter.co.uk

1.4. Emergency telephone number

Emergency number: + 44 (0) 1473 724056, 8.00 a.m. to 5.30 p.m., Monday to Friday – NOT 24 hours.

In the event of a medical enquiry regarding this product, please contact your doctor or local hospital accident and emergency department.

2.1 Classification of the substance or mixture

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

Flammable liquids, Category 3 H226

Skin corrosion/irritation,
Category 2 H315

Serious eye damage/eye
irritation, Category 2 H319

Specific target organ toxicity -
Repeated exposure,
Category 2 H373

Hazardous to the aquatic
environment
- Chronic Hazard, Category 3 H412

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2 Label elements

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

Hazard pictograms (CLP)



GHS02



GHS07



GHS08

Signal word (CLP)

Warning

Hazardous ingredients

xylene

Hazard statements (CLP)

H226 - Flammable liquid and vapour
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H373 - May cause damage to organs through prolonged
or repeated exposure
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP)

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P260 - Do not breathe fume, vapours, spray
P280 - Wear protective gloves, face protection, eye protection
P233 - Keep container tightly closed
P210 - Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking

P271 - Use only outdoors or in a well-ventilated area

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

EUH-statements

EUH208 - Contains Diphenylmethanediisocyanate , isomers and homologues(9016-87-9), (R)- 2-(4-Chloro-2-methylphenoxy)propionic acid, 2-Ethylhexylester(861229-15-4). May produce an allergic reaction
EUH204 - Contains isocyanates. May produce an allergic reaction

2.3. Other hazards

No additional information available

3.1 Substance

Not applicable

3.2 Mixture

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|--------|--|
| xylene (Note C) | (CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 | 10- 15 | Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 |
| (R)-2-(4-Chloro-2-methylphenoxy)propionic acid, 2-Ethylhexylester | (CAS No) 861229-15-4 | < 1 | Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Diphenylmethanediisocyanate isomers and homologues | (CAS No) 9016-87-9 | < 1 | Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Care. 2, H351 STOT SE 3, H335 STOT RE 2, H373 |

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Full text of H-statements: see section 16

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | Assure fresh air breathing. Allow the victim to rest. |
| First-aid measures after skin contact | Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. |

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

| | |
|--------------------------------------|--------------------------------|
| Symptoms/injuries | Causes damage to organs. |
| Symptoms/injuries after skin contact | Causes skin irritation. |
| Symptoms/injuries after eye contact | Causes serious eye irritation. |

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

No additional information available

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|------------------|--|
| Fire hazard | Flammable liquid and vapour. |
| Explosion hazard | May form flammable/explosive vapour-air mixture. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | Do not enter fire area without proper protective equipment, including respiratory protection. |

6.1. Personal precautions, protective equipment and emergency procedures

General measures Remove ignition sources. Use special care to avoid static electric charges.
No open flames. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Equip cleanup crew with proper protection.
Emergency procedures Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Soak up spills with inert solids, such as clay or diatomaceous earth as soon
as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

7.1 Precautions for safe handling

Additional hazards
when processed Handle empty containers with care because residual vapours
are flammable.

Precautions for safe handling Wash hands and other exposed areas with mild soap and water before
eating, drinking or smoking and when leaving work. Provide good ventilation
in process area to prevent formation of vapour. No open flames. No
smoking. Take precautionary measures against static discharge. Use only
non-sparking tools. Avoid breathing vapours, fume, spray.

Hygiene measures Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

| | |
|------------------------|--|
| Technical measures | Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment. |
| Storage conditions | Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container tightly closed. |
| Incompatible products | Strong bases. Strong acids. water, amines and alcohols. |
| Incompatible materials | Sources of ignition. Direct sunlight. Heat sources. |

7.3. Specific end use(s)

No additional information available

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment Avoid all unnecessary exposure.

Hand protection: Wear protective gloves. (Council Directive 89/686/EEC)

Eye protection: Chemical goggles or safety glasses

Skin and body protection:Wear suitable protective clothing

Respiratory protection: Wear appropriate mask. (type A1 according to standard EN14387)

Other information : Do not eat, drink or smoke during use.

9.1. Information on basic physical and chemical properties

| | |
|---|-----------------------------|
| Physical state | Liquid |
| Appearance | Viscous liquid. |
| Colour | Black. |
| Odour | characteristic. |
| Odour threshold | No data available |
| pH | No data available |
| Relative evaporation rate (butylacetate=1) | No data available |
| Melting point | No data available |
| Freezing point | No data available |
| Boiling point | No data available |
| Flash point | 42 °C |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Flammability (solid, gas) | Flammable liquid and vapour |
| Vapour pressure | No data available |
| Relative vapour density at 20°C | No data available |
| Relative density | No data available |
| Density | 1.03 g/cm ³ |
| Solubility | organic solvents |
| Log Pow | No data available |
| Viscosity, kinematic | No data available |
| Viscosity, dynamic | 25000 cP |
| Explosive properties | No data available |
| Oxidising properties | No data available |
| Explosive limits | No data available |

9.2. Other information

No additional information available

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Strong acids. Strong bases. water, amines and alcohols.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

11.1. Information on toxicological effects

Acute toxicity : Not classified

Diphenylmethanediisocyanate, isomers and homologues (9016-87-9)

| | |
|--|--|
| LD50 oral rat | 10000 mg/kg |
| Skin corrosion/irritation | Causes skin irritation. |
| Serious eye damage/irritation | Causes serious eye irritation. |
| Respiratory or skin sensitisation | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Germ cell mutagenicity | Not classified Based on available data, the classification criteria are not met |
| Carcinogenicity | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Reproductive toxicity | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Specific target organ toxicity (repeated exposure) | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | Not classified |
| Additional information | Based on available data, the classification criteria are not met |

STARCOAT RELEVE

Viscosity, kinematic 24271,84466019 mm²/s

Potential adverse human health effects and symptoms Based on available data, the classification criteria are not met.

12.1. Toxicity

Ecology - water Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

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Persistence and degradability May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

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Bioaccumulative potential No available data.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information Avoid release to the environment

13.1. Waste treatment methods

Waste disposal recommendations Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to a hazardous or special waste collection point.

Additional information Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials Avoid release to the environment.

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

14.1. UN number

| | |
|---------------|----------------|
| UN-No. (ADR) | 1139 |
| UN-No. (IMDG) | 1139 |
| UN-No. (IATA) | 1139 |
| UN-No. (AON) | Not applicable |
| UN-No. (RID) | Not applicable |

14.2. UN proper shipping name

| | |
|---------------------------------------|--|
| Proper Shipping Name (ADR) | COATING SOLUTION |
| Proper Shipping Name (IMDG) | COATING SOLUTION |
| Proper Shipping Name (IATA) | Coating solution |
| Proper Shipping Name (AON) | Not applicable |
| Proper Shipping Name (RID) | Not applicable |
| Transport document description (ADR) | UN 1139 COATING SOLUTION (NOT SUBJECT TO THE PROVISIONS OF ADR) - The product is packed in receptacles of less than 450 litres capacity. - Exempted according to 2.2.3.1.5 (Viscous substance exemption)), 3, 111, (D/E) |
| Transport document description (IMDG) | UN 1139 COATING SOLUTION (NOT SUBJECT TO THE PROVISIONS OF IMDG CODE FOR THE MARKING, LABELLING AND TESTING OF PACKAGES IN CHAPTERS 4.1, 5.2, AND 6.1. - The product is packed in receptacles not exceeding 30 L capacity - The following statement shall be included in the transport document: "Transport in accordance with 2.3.2.5 of the IMDG Code."), 3, III |
| Transport document description (IATA) | UN 1139 Coating solution, 3, III |

14.3. Transport hazard class(es)

ADR

| | |
|----------------------------------|---|
| Transport hazard class(es) (ADR) | 3 |
| Danger labels (ADR) | 3 |



IMDG

Transport hazard class(es) (IMDG) 3

Danger labels (IMDG) 3



IATA

Transport hazard class(es) (IATA) 3

Hazard labels (IATA) 3



ADN

Transport hazard class(es) (AON) Not applicable

RID

Transport hazard class(es) (RID) Not applicable

14.4. Packing group

Packing group (ADR) III

Packing group (IMDG) III

Packing group (IATA) III

Packing group (AON) Not applicable

Packing group (RID) Not applicable

14.5. Environmental hazards

Dangerous for the environment No

Marine pollutant No

Other information No supplementary information available

14.6. Special precautions for user

Overland transport

| | | | |
|---|---|----|------|
| Classification code (ADR) | F1 | | |
| Special provisions (ADR) | 640E | | |
| Limited quantities (ADR) | 51 | | |
| Excepted quantities (ADR) | E1 | | |
| Packing instructions (ADR) | P001, IBC03, LP01, R001 | | |
| Mixed packing provisions (ADR) | MP19 | | |
| Transport category (ADR) | 3 | | |
| Special provisions for carriage - Packages (ADR) | V12 | | |
| Special provisions for carriage - Operation (ADR) | S2 | | |
| Hazard identification number (Kemler No.) | 30 | | |
| Orange plates | <table border="1"> <tr> <td style="background-color: orange; color: black; text-align: center;">30</td> </tr> <tr> <td style="background-color: orange; color: black; text-align: center;">1139</td> </tr> </table> | 30 | 1139 |
| 30 | | | |
| 1139 | | | |
| Tunnel restriction code (ADR) | D/E | | |
| EAC code | •3YE | | |

Transport by sea

| | |
|---------------------------------|------------|
| Special provisions (IMDG) | 955 |
| Limited quantities (IMDG) | 5L |
| Excepted quantities (IMDG) | E1 |
| Packing instructions (IMDG) | P001, LP01 |
| IBC packing instructions (IMDG) | IBC03 |
| EmS-No. (Fire) | F-E |
| EmS-No. (Spillage) | S-E |
| Stowage category (IMDG) | A |

Air transport

| | |
|--|------|
| PCA Excepted quantities (IATA) | E1 |
| PCA Limited quantities (IATA) | Y344 |
| PCA limited quantity max net quantity (IATA) | 10L |

| | |
|---------------------------------|------|
| PCA packing instructions (IATA) | 355 |
| PCA max net quantity (IATA) | 60L |
| CAO packing instructions (IATA) | 366 |
| CAO max net quantity (IATA) | 220L |
| Special provisions (IATA) | A3 |
| ERG code (IATA) | 3L |

Inland waterway transport

No data available

Rail transport

No data available

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

Not applicable

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

15.1.2. National regulations

Germany

VwVwS Annex reference Water hazard class (WGK) 2, hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing
the Federal Immission

Control Act - 12.BImSchV Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende
stoffen None of the components are listed

SZW-lijst van mutagene stoffen None of the components are listed

NIET-limitatieve lijst van voor
de voortplanting giftige
stoffen - Borstvoeding None of the components are listed

NIET-limitatieve lijst van voor
de voortplanting giftige
stoffen - Vruchtbaarheid None of the components are listed

NIET-limitatieve lijst van voor
de voortplanting giftige
stoffen - Ontwikkeling xylene is listed

Denmark

Class for fire hazard Class II-1

Store unit 5 litre

Classification remarks R10 <H226;H315;H319;H373;H412>; Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations

Danish Regulation

Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

Persons suffering from asthma or eczema and persons who have chronic lung diseases, skin or respiratory allergies to isocyanates should not work with the material

The requirements from the Danish Working Environment Authorities regarding work with epoxy resins and isocyanates must be observed during use and disposal

15.2. Chemical safety assessment

No data available

Data sources 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information None.

Full text of H- and EUH-statements:

| | |
|---------------------------|---|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment-Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment - Chronic Hazard, Category 1 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Resp. Sens. 1 | Sensitisation - Respiratory, Category 1 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Sensitisation - Skin, Category 1 |
| STOT RE 2 | Specific target organ toxicity - Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity - Single exposure , Category 3, Respiratory tract irritation |
| H226 | Flammable liquid and vapour |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| H335 | May cause respiratory irritation |
| H351 | Suspected of causing cancer |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |

| | | |
|-------------------|--|-----------------------|
| H412 | Harmful to aquatic life with long lasting effects | |
| EUH204 | Contains isocyanates. May produce an allergic reaction | |
| EUH208 | Contains . May produce an allergic reaction | |
| Flam. Liq. 3 | H226 | On basis of test data |
| Skin Irrit. 2 | H315 | Calculation method |
| Eye Irrit. 2 | H319 | Calculation method |
| STOT RE 2 | H373 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

SOS EU (REACH Annex II)

This information is correct to the best of our 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. It is the user's responsibility to check the product is suitable for the intended application and that it is used in compliance with current safety regulations.