

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

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

1.1 Product identifier

Product identifier : S2031

Product name : SYSTEM 20 EXTRA FAST HARDENER

Product type : Liquid.

Other means of

identification

: S2031/1; S2031/25; S2031/M

Date of issue/ Date of

: 19 June 2025

revision

: 2.01 Version

Date of previous issue : 19 June 2025

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

Identified uses : Coating component.

Uses advised against : Not for sale to or use by consumers.

1.3 Details of the supplier of the safety data sheet

U-POL Limited Denington Road

Wellingborough, Northamptonshire, NN8 2QH

+44 (0) 1933 230310

technicalsupport@u-pol.com

e-mail address of person : sds-competence@axalta.com

responsible for this SDS

U-POL Netherlands B.V. Hoorgoorddreef 15

Amsterdam, Netherlands 1101BA

+31 20 240 2216

technicalsupport@u-pol.com

1.4 Emergency telephone number

Supplier

Telephone number : +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to UK CLP/GHS

Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Sens. 1, H317 **STOT SE 3, H335 STOT SE 3, H336** Aquatic Chronic 3, H412

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SECTION 2: Hazards identification

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard statements

Hazard pictograms





Signal word : Warning **Contains** : n-butyl acetate

> Hexamethylene diisocyanate, oligomers : H226 - Flammable liquid and vapour.

H317 - May cause an allergic skin reaction.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention : P280 - Wear protective gloves.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

Response : P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

Storage : Not applicable. : Not applicable. **Disposal**

Supplemental label

: EUH066 - Repeated exposure may cause skin dryness or cracking. EUH204 - Contains isocyanates. May produce an allergic reaction. elements

Annex XVII - Restrictions on the manufacture. placing on the market and use of certain dangerous substances, mixtures and

articles

: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

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SECTION 3: Composition/information on ingredients

| Product/ingredient name | Identifiers | % | Classification | Туре |
|--|--|-----------|--|---------|
| n-butyl acetate | REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 | ≥50 - ≤75 | Flam. Liq. 3, H226 STOT SE 3, H336 EUH066 | [1] [2] |
| Hexamethylene diisocyanate, oligomers | REACH #: 01-2119485796-17 EC: 931-274-8 CAS: 28182-81-2 | ≥25 - ≤44 | Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335 | [1] [2] |
| Reaction mass of ethylbenzene and xylene | REACH #: 01-2119539452-40 EC: 905-588-0 | <10 | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | [1] |
| Hydrocarbons, C9, aromatics | REACH #: 01-2119455851-35 EC: 918-668-5 | ≤3 | Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066 | [1] |
| | | | See Section 16 for the full text of the H statements declared above. | |

There are no additional 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.

Type

- [1] Substance classified with a physical, health or environmental hazard
- [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.

Skin contact

: Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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SECTION 4: First aid measures

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact: Adverse symptoms may include the following:

irritation redness dryness cracking

Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : 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.

Specific treatments: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Recommended: alcohol-resistant foam, CO₂, powders, water spray or mist.

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous combustion

products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric

isocyanates.

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

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SECTION 5: Firefighting measures

Special protective equipment for fire-fighters

: Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders:

If specialised 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

Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

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 (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13).

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

Examination of lung function should be carried out on a regular basis on persons spraying this mixture.

7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Care should be taken when re-opening partly-used containers. Precautions should be taken to minimise exposure to atmospheric humidity or water. CO₂ will be formed, which, in closed containers, could result in pressurisation. Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

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SECTION 7: Handling and storage

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed.

Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Seveso Directive - Reporting thresholds

Danger criteria

| | Notification and MAPP threshold | Safety report threshold |
|-----|---------------------------------|-------------------------|
| P5c | 5000 tonnes | 50000 tonnes |

7.3 Specific end use(s)

Recommendations
Industrial sector specific

Not available.Not available.

solutions

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|---------------------------------------|--|
| n-butyl acetate | EH40/2005 WELs (United Kingdom (UK), 1/2020) |
| | STEL 15 minutes: 966 mg/m³. |
| | STEL 15 minutes: 200 ppm. |
| | TWA 8 hours: 724 mg/m³. |
| | TWA 8 hours: 150 ppm. |
| Hexamethylene diisocyanate, oligomers | EH40/2005 WELs (United Kingdom (UK), 1/2020) [isocyanates, |
| | all, except methyl isocyanate] Inhalation sensitiser. |
| | STEL 15 minutes: 0.07 mg/m³ (as -NCO). |
| | TWA 8 hours: 0.02 mg/m³ (as -NCO). |

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS 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.

DNELs/DMELs

Product/ingredient name

Result

n-butyl acetate

DNEL - Workers - Short term - Dermal

11 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Oral

2 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Oral

2 mg/kg bw/day

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SECTION 8: Exposure controls/personal protection

Effects: Systemic

DNEL - General population - Long term - Dermal

3.4 mg/kg bw/day Effects: Systemic

DNEL - General population - Short term - Dermal

6 mg/kg bw/day Effects: Systemic

DNEL - Workers - Short term - Dermal

11 mg/kg bw/day Effects: Systemic

DNEL - General population - Long term - Inhalation

12 mg/m³

Effects: Systemic

DNEL - General population - Long term - Inhalation

35.7 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

300 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation

300 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Inhalation

300 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

600 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

600 mg/m³ Effects: Systemic

DNEL - Workers - Long term - Inhalation

300 mg/m³ Effects: Systemic

Hexamethylene diisocyanate, oligomers **DNEL - Workers - Long term - Inhalation**

> 0.5 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation

1 ma/m³ Effects: Local

Reaction mass of ethylbenzene and xylene **DNEL - Workers - Long term - Dermal**

212 mg/kg bw/day Effects: Systemic

DNEL - Workers - Long term - Inhalation

221 mg/m³ Effects: Systemic

Hydrocarbons, C9, aromatics **DNEL - Workers - Long term - Inhalation**

151 mg/m³

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SECTION 8: Exposure controls/personal protection

Effects: Systemic

DNEL - Workers - Long term - Dermal

12.5 mg/kg bw/day Effects: Systemic

PNECs

Product/ingredient name

n-butyl acetate

Result

Soil

0.09 mg/kg

Fresh water

0.18 mg/l

Sewage Treatment Plant

35.6 mg/l

Marine water

0.018 mg/l

Fresh water sediment

0.981 mg/kg

Marine water sediment

0.098 mg/kg

Hexamethylene diisocyanate, oligomers Marine water

12.7 µg/l

Fresh water

1270 µg/l

Sediment

266700 mg/kg

Soil

53200 mg/kg

Sewage Treatment Plant

38.28 mg/kg

Reaction mass of ethylbenzene and xylene F

Fresh water

0.327 mg/l

Marine water

0.327 mg/l

Sewage Treatment Plant

6.58 mg/l

Fresh water sediment

12.46 mg/kg dwt

Marine water sediment

12.46 mg/kg dwt

Soil

2.31 mg/kg

8.2 Exposure controls

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SECTION 8: Exposure controls/personal protection

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used.

Examination of lung function should be carried out on a regular basis on persons spraying this mixture.

Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Air-fed protective respiratory equipment must be worn by the spray operator, even when good ventilation is provided. In other operations, if local exhaust ventilation and good general extraction are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn. (See Occupational exposure controls.)

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Use safety eyewear designed to protect against splash of liquids.

Skin protection

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves

: Duration / breakthrough time: <1 hour,

Glove material: NBR, nitrile rubber, material thickness as splash protection: at least 0.2 mm. (EN374)

0.2 IIIII, (EN374)

Glove material: NBR, nitrile rubber Material thickness for short-term contact: at least

0.5 mm, (EN374)

The recommendation for the type or types of glove to use when handling this

product is based on information from the following source:

Expert judgment

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection

: Personnel should wear antistatic clothing made of natural fibres or of hightemperature-resistant synthetic fibres.

Other skin protection

: 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.

Respiratory protection

: By spraying: air-fed respirator.

By other operations than spraying, in well ventilated areas, air-fed respirators could

be replaced by a combination charcoal filter and particulate filter mask.

Environmental exposure controls

: Do not allow to enter drains or watercourses.

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SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour: Transparent.Odour: Not available.Odour threshold: Not available.

Melting point/freezing point : Technically not possible to measure

Initial boiling point and

boiling range

: 125 to 142°C (257 to 287.6°F)

Flammability (solid, gas)
Upper/lower flammability or

explosive limits

: Not available.: Lower: 1%Upper: 7.5%

Not available.

Flash point : Closed cup: 24.3°C (75.7°F)

Auto-ignition temperature : 280°C (536°F)

Decomposition temperature : Not applicable.

pH : Not applicable.

Viscosity : Dynamic (room temperature): Not available.

Kinematic (room temperature): Not available.

Kinematic (40°C): Not available.

Solubility in water : Not available.

Miscible with water : No.

Partition coefficient: n-octanol/ : Not applicable.

water

. Hot applicable.

Vapour pressure : 0.89 kPa (6.7 mm Hg)

Relative density : Not available.

Density : 0.965 g/cm³

Vapour density : Not available.

Explosive properties : Not available.

Oxidising properties : Not available.

Weight volatiles : 63.5 % (w/w)

VOC content : 63.5 % (w/w) (2010/75/EU)

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Further information Not available.

9.2.2 Other safety characteristics

Miscible with water : No.

Further information Not available.

room temperature (=20°C)

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SECTION 10: Stability and reactivity

10.1 Reactivity : The product reacts slowly with water, resulting in the production of carbon dioxide.

: Stable under recommended storage and handling conditions (see Section 7). 10.2 Chemical stability

10.3 Possibility of hazardous reactions : In closed containers, pressure build-up could result in distortion, expansion and, in

extreme cases, bursting of the container.

10.4 Conditions to avoid : In a fire, hazardous decomposition products may be produced.

10.5 Incompatible materials : Keep away from: oxidising agents, strong alkalis, strong acids, amines, alcohols,

water. Uncontrolled exothermic reactions occur with amines and alcohols.

10.6 Hazardous decomposition products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric

isocyanates.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name Result

n-butyl acetate Rat - Oral - LD50

10768 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Lung, Thorax, or Respiration - Other changes Liver -

Other changes

Rabbit - Dermal - LD50

>17600 mg/kg

Rat - Inhalation - LC50 Vapour

21.1 mg/l [4 hours]

Rat - Inhalation - LC50 Dusts and mists Hexamethylene diisocyanate, oligomers

18500 mg/m³ [1 hours]

Reaction mass of ethylbenzene and xylene Rat - Oral - LD50

3523 to 4000 mg/kg

Rabbit - Dermal - LD50

121236 mg/kg

Rat - Inhalation - LC50 Vapour 6350 to 6700 ppm [4 hours]

Hydrocarbons, C9, aromatics Rat - Female - Oral - LD50

3492 mg/kg **OECD 401**

Rabbit - Dermal - LD50

>3160 ma/ka **OECD 402**

Conclusion/Summary [Product] : Not available.

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SECTION 11: Toxicological information

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--|------------------|-------------------|--------------------------------|-----------------------------------|--|
| mixture | N/A | 13373.9 | N/A | 24.6 | 4.1 |
| n-butyl acetate | 10768 | N/A | N/A | 21.1 | N/A |
| Hexamethylene diisocyanate, oligomers | N/A | N/A | N/A | 11 | 1.5 |
| Reaction mass of ethylbenzene and xylene Hydrocarbons, C9, aromatics | N/A 3492 | 1100 N/A | N/A N/A | 11 N/A | N/A N/A |

Skin corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Product/ingredient name

Hexamethylene diisocyanate, oligomers

Result

Mouse - skin

OECD [Skin Sensitization: Local Lymph Node Assay]

Result: Sensitising

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

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SECTION 11: Toxicological information

Not available.

Conclusion/Summary [Product]: Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name Result

n-butyl acetate STOT SE 3, H336 (Narcotic effects)

Hexamethylene diisocyanate, oligomers STOT SE 3, H335 (Respiratory tract irritation) Reaction mass of ethylbenzene and xylene STOT SE 3, H335 (Respiratory tract irritation) Hydrocarbons, C9, aromatics STOT SE 3, H335 (Respiratory tract irritation)

STOT SE 3, H336 (Narcotic effects)

Specific target organ toxicity (repeated exposure)

Product/ingredient name Result

Reaction mass of ethylbenzene and xylene **STOT RE 2, H373**

Aspiration hazard

Product/ingredient name Result

Reaction mass of ethylbenzene and xylene ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Hydrocarbons, C9, aromatics

Information on likely routes of exposure

Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May

cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic

skin reaction.

Ingestion : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact : Adverse symptoms may include the following:

> irritation redness dryness cracking

Ingestion : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

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SECTION 11: Toxicological information

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Not available.

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/

or dermatitis. Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name Resu

n-butyl acetate Acute - LC50 - Marine water

Fish - Inland silverside - Menidia beryllina

185 ppm [96 hours] Effect: Mortality

Hexamethylene diisocyanate, oligomers Acute - LC50

Fish - danio rerio >100 mg/l [96 hours]

Acute - EC50

Daphnia - *Daphnia magna* >100 mg/l [48 hours]

Reaction mass of ethylbenzene and xylene Acute - LC50

OECD 203

Fish - Trout - Oncorhynchus mykiss

2.6 mg/l [96 hours]

Acute - LC50 OECD 202

Daphnia - Daphnia magna

1 mg/l [24 hours]

Acute - EC50

OECD 201

Algae - Algae - Selenastrum capricornutum

2.2 mg/l [73 hours]

Chronic - NOEC

OECD 301F

Micro-organism - Activated sludge - Activated sludge

16 mg/l [28 days]

Hydrocarbons, C9, aromatics Acute - LC50

OECD 203

Fish - Trout - Oncorhynchus mykiss

9.2 mg/l [96 hours]

Conclusion/Summary [Product] : Not available.

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SECTION 12: Ecological information

12.2 Persistence and degradability

Product/ingredient name

Result

Hexamethylene diisocyanate, oligomers

Aerobic

1% [28 days] - Not readily

Conclusion/Summary [Product]: Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---------------------------------------|-------------------|------------|------------------|
| Hexamethylene diisocyanate, oligomers | - | - | Not readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--|--------|-------|-----------|
| n-butyl acetate | 2.3 | - | Low |
| Hexamethylene diisocyanate, oligomers | 5.54 | 367.7 | Low |
| Reaction mass of ethylbenzene and xylene | 3.16 | - | Low |

12.4 Mobility in soil

Soil/water partition

coefficient

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

| Product/ingredient name | PBT | Р | В | Т | vPvB | vΡ | vB |
|---|----------|------------|-----------|----------|-----------|------------|-----------|
| n-butyl acetate Hexamethylene diisocyanate, oligomers | No No | N/A N/A | N/A No | No No | N/A No | N/A N/A | N/A No |
| Reaction mass of ethylbenzene and xylene | N/A | N/A | N/A | Yes | N/A | N/A | N/A |
| Hydrocarbons, C9, aromatics | No | N/A | N/A | No | N/A | N/A | N/A |

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal

: 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.

Hazardous waste

ie

: The classification of the product may meet the criteria for a hazardous waste.

Packaging

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SECTION 13: Disposal considerations

Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

| Type of packaging | Waste catalogue | | |
|-------------------|-----------------|--|--|
| | 15 01 10* | packaging containing residues of or contaminated by hazardous substances | |

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 14.1 UN number | UN1263 | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper shipping name | PAINT RELATED MATERIAL | PAINT RELATED MATERIAL | PAINT RELATED MATERIAL | PAINT RELATED MATERIAL |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 | 3 |
| 14.4 Packing group | III | III | III | III |
| 14.5 Environmental hazards | No. | Yes. | No. | No. |

Additional information

ADR/RID

: Tunnel code (D/E)

ADN

: The product is only regulated as an environmentally hazardous substance when

transported in tank vessels.

14.6 Special precautions for user

: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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SECTION 15: Regulatory information

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P₅c

National regulations

| Product/ingredient name | List name | Name on list | Classification | Notes |
|-------------------------|-----------|--------------|----------------|-------|
| | | | | |

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ADN = European Provisions concerning the International Carriage of Dangerous

Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods

IMO = International Maritime Organization

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods

bv Rail

RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

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SECTION 16: Other information

| Classification | Justification |
|-------------------------|-----------------------|
| Flam. Liq. 3, H226 | On basis of test data |
| Acute Tox. 4, H332 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| STOT SE 3, H335 | Calculation method |
| STOT SE 3, H336 | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |
| | |

Full text of abbreviated H statements

| H226 | Flammable liquid and vapour. |
|--------|--|
| 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. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| 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. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Full text of classifications

| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
|-------------------|---|
| | |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

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Notice to reader

This product is intended for industrial use only.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SYSTEM 20 EXTRA FAST HARDENER

SECTION 16: Other information

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