# 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** | : | PLASTX |
| **Product name** | : | BUMPERFILL (OFPBF) |
| **Product type** | : | Solid. |
| **Other means of identification** | : | 1250012228; plastx/6 |
| **Date of issue/ Date of revision** | : | 28 August 2026 |
| **Version** | : | 2.48 |
| **Date of previous issue** | : | 28 August 2026 |

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

| | | |
|---|---|---|
| **Identified uses** | : | Putty. |
| **Uses advised against** | : | Not for sale to or use by consumers. |

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

U-POL LTD,
DENINGTON ROAD,
WELLINGBOROUGH,
NN8 2QH
+44 (0) 1933 230310
sds-competence@axalta.com

**e-mail address of person responsible for this SDS** : sds-competence@axalta.com

U-POL NETHERLANDS B.V,
DE GEER 14,
4004LT TIEL,
NETHERLANDS
+31 20 240 2216
sds-competence@axalta.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**

Skin Irrit. 2, H315
Eye Irrit. 2, H319
Repr. 2, H361d
STOT RE 1, H372

## 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 pictograms** :



**Signal word** : Danger

**Contains** : styrene

**Hazard statements** : H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H361d - Suspected of damaging the unborn child.
H372 - Causes damage to organs through prolonged or repeated exposure.

**Precautionary statements**

**Prevention** : P201 - Obtain special instructions before use.
P260 - Do not breathe dust.
P270 - Do not eat, drink or smoke when using this product.
P264 - Wash hands thoroughly after handling.

**Response** : P302 + P352 - IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Supplemental label elements** : Not applicable.

**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 vPvB.

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

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

| Product/ingredient name | Identifiers | % | Classification | Type |
|---|---|---|---|---|
| styrene | REACH #: 01-2119457861-32<br>EC: 202-851-5<br>CAS: 100-42-5<br>Index: 601-026-00-0 | ≤13 | Flam. Liq. 3, H226<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Repr. 2, H361d<br>STOT SE 3, H335<br>STOT RE 1, H372 (hearing organs)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, | [1] [2] |

## SECTION 3: Composition/information on ingredients

| | | | | |
|---|---|---|---|---|
| 1,4-naphthoquinone | EC: 204-977-6<br>CAS: 130-15-4 | <0.1 | H412<br>Acute Tox. 3, H301<br>Acute Tox. 1, H330<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=1)<br>**See Section 16 for the full text of the H statements declared above.** | [1] |

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 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 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.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**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. 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

**Over-exposure signs/symptoms**

**Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

# SECTION 4: First aid measures

**Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:
irritation
redness
reduced foetal weight
increase in foetal deaths
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

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

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

# SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Recommended: alcohol-resistant foam, $CO_2$, powders, water spray.

**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.

### 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.

**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

# SECTION 6: Accidental release measures

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). Preferably clean with a detergent. Avoid using solvents.

**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).

### 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.
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

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 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.

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

# SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational exposure limits**

styrene

**EH40/2005 WELs (United Kingdom (UK), 1/2020)**
STEL 15 minutes: 250 ppm.
TWA 8 hours: 100 ppm.
TWA 8 hours: 430 mg/m³.
STEL 15 minutes: 1080 mg/m³.

**Biological exposure indices**

No exposure indices known.

## SECTION 8: Exposure controls/personal protection

**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 |
|---|---|
| styrene | **DNEL - General population - Long term - Oral**<br>7.7 µg/kg bw/day<br>Effects: Systemic |
| - | **DNEL - General population - Long term - Inhalation**<br>1 mg/m³<br>Effects: Local |
| - | **DNEL - General population - Long term - Inhalation**<br>1 mg/m³<br>Effects: Systemic |
| - | **DNEL - General population - Short term - Inhalation**<br>10 mg/m³<br>Effects: Local |
| - | **DNEL - General population - Short term - Inhalation**<br>10 mg/m³<br>Effects: Systemic |
| - | **DNEL - Workers - Long term - Inhalation**<br>85 mg/m³<br>Effects: Systemic |
| - | **DNEL - Workers - Short term - Inhalation**<br>100 mg/m³<br>Effects: Local |
| - | **DNEL - Workers - Long term - Inhalation**<br>100 mg/m³<br>Effects: Local |
| - | **DNEL - Workers - Short term - Inhalation**<br>100 mg/m³<br>Effects: Systemic |
| - | **DNEL - General population - Long term - Dermal**<br>343 mg/kg bw/day<br>Effects: Systemic |
| - | **DNEL - Workers - Long term - Dermal**<br>406 mg/kg bw/day<br>Effects: Systemic |
| 1,4-naphthoquinone | **DNEL - Workers - Long term - Inhalation**<br>0.0329 mg/m³<br>Effects: Systemic |

**PNECs**

| Product/ingredient name | Result |
|---|---|

# SECTION 8: Exposure controls/personal protection

1,4-naphthoquinone

**Fresh water - Assessment Factors**
26.1 ng/l

**Marine water - Assessment Factors**
2.61 ng/l

**Sewage Treatment Plant - Assessment Factors**
0.172 mg/l

**Fresh water sediment - Equilibrium Partitioning**
321 ng/kg dwt

**Sediment - Equilibrium Partitioning**
32.1 ng/kg dwt

**Soil - Equilibrium Partitioning**
49 ng/kg dwt

### 8.2 Exposure controls

**Appropriate engineering controls** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

**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. 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)
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 high-temperature-resistant synthetic fibres.

## SECTION 8: Exposure controls/personal protection

**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** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.
A management program to ensure safe use including proper fitting, training on handling, duration of use, cleaning and replacement of respirators must be in place.
Recommended:
EN 140 filter mask with AXP3 or ABEK2P3 filter according to EN 14387 or pressurized air respirator according to EN 14594.
Depending on the risk assessment of the workplace, other respirator types might be selected.

Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

**Environmental exposure controls** : Do not allow to enter drains or watercourses.

## 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** : Solid.

**Colour** : Black.

**Odour** : Aromatic.

**Odour threshold** : Not available.

**Melting point/freezing point** : Technically not possible to measure

**Initial boiling point and boiling range** : 145 to 145°C (293 to 293°F)

**Flammability (solid, gas)** : Not available.

**Upper/lower flammability or explosive limits** : Not applicable.

Not available.

**Flash point** : Closed cup: 32°C (89.6°F) [Product does not sustain combustion.]

**Decomposition temperature** : Not applicable.

**pH** : Not applicable.

**Viscosity** : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C): Not available.

**Solubility(ies)** :

| Media | Result |
|---|---|
| cold water | Very slightly soluble |

**Solubility in water** : Not available.

**Miscible with water** : No.

**Partition coefficient: n-octanol/water** : Not applicable.

**Vapour pressure** : 0.1 kPa (0.77 mm Hg)

**Relative density** : Not available.

**Density** : 1.938 g/cm³

## SECTION 9: Physical and chemical properties

**Vapour density** : Not applicable.

**Explosive properties** : Not available.

**Oxidising properties** : Not available.

**Weight volatiles** : 11 % (w/w)

**VOC content** : (2010/75/EU)

**Particle characteristics**

**Median particle size** : Not available.

**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)***

## SECTION 10: Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

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

**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.

**10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

**10.6 Hazardous decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

**Acute toxicity**

| Product/ingredient name | Result |
|---|---|
| styrene | **Rat - Oral - LD50**<br>2650 mg/kg<br>Toxic effects: Behavioral - Somnolence (general depressed activity) Liver - Other changes<br><br>**Rat - Inhalation - LC50 Vapour**<br>11800 mg/m³ [4 hours]<br><br>**Rat - Inhalation - LC50 Gas.**<br>2770 ppm [4 hours] |
| 1,4-naphthoquinone | **Rat - Oral - LD50** |

## SECTION 11: Toxicological information

190 mg/kg
Toxic effects: Behavioral - Somnolence (general depressed activity) Gross Metabolite Changes - Weight loss or decreased weight gain

**Rat - Male, Female - Inhalation - LC50 Dusts and mists**
0.046 mg/l [4 hours]
OECD [Acute Inhalation Toxicity]

**Conclusion/Summary [Product]** : Not available.

**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 | N/A | 25319.9 | 107.9 | N/A |
| styrene | 2650 | N/A | 2770 | 11.8 | N/A |
| 1,4-naphthoquinone | 190 | N/A | N/A | N/A | 0.046 |

**Skin corrosion/irritation**

| Product/ingredient name | Result |
|---|---|
| styrene | **Rabbit - Skin - Mild irritant**<br>Amount/concentration applied: 500 mg<br><br>**Rabbit - Skin - Moderate irritant**<br>Amount/concentration applied: 100 % |
| 1,4-naphthoquinone | **Rabbit - Skin - Visible necrosis**<br>Duration of treatment/exposure: 4 hours<br>Observation period: 1 hours |

**Conclusion/Summary [Product]** : Not available.

**Serious eye damage/eye irritation**

| Product/ingredient name | Result |
|---|---|
| styrene | **Human - Eyes - Mild irritant**<br>Amount/concentration applied: 50 ppm<br><br>**Rabbit - Eyes - Moderate irritant**<br>Duration of treatment/exposure: 24 hours<br>Amount/concentration applied: 100 mg<br><br>**Rabbit - Eyes - Severe irritant**<br>Amount/concentration applied: 100 mg |

**Conclusion/Summary [Product]** : Not available.

**Respiratory corrosion/irritation**

Not available.

**Conclusion/Summary [Product]** : Not available.

### Respiratory or skin sensitization

| Product/ingredient name | Result |
|---|---|

## SECTION 11: Toxicological information

| | |
|---|---|
| 1,4-naphthoquinone | **Guinea pig - skin**<br>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**

Not available.

**Conclusion/Summary [Product]** : Not available.

**Specific target organ toxicity (single exposure)**

| Product/ingredient name | Result |
|---|---|
| styrene | STOT SE 3, H335 (Respiratory tract irritation) |
| 1,4-naphthoquinone | STOT SE 3, H335 (Respiratory tract irritation) |

**Specific target organ toxicity (repeated exposure)**

| Product/ingredient name | Result |
|---|---|
| styrene | STOT RE 1, H372 (hearing organs) |

**Aspiration hazard**

| Product/ingredient name | Result |
|---|---|
| styrene | ASPIRATION HAZARD - Category 1 |

**Information on likely routes of exposure**

Not available.

**Potential acute health effects**

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Causes skin irritation.

**Ingestion** : No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

# SECTION 11: Toxicological information

**Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

**Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:
irritation
redness
reduced foetal weight
increase in foetal deaths
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

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

**Short term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Potential chronic health effects**

Not available.

**Conclusion/Summary [Product]** : Not available.

**General** : Causes damage to organs through prolonged or repeated exposure.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : Suspected of damaging the unborn child.

**Other information**

Not available.

# SECTION 12: Ecological information

**12.1 Toxicity**

| Product/ingredient name | Result |
|---|---|
| styrene | **Acute - LC50 - Fresh water**<br>US EPA<br>Daphnia - Water flea - *Daphnia magna*<br>Age: ≤24 hours<br>23 mg/l [48 hours]<br>Effect: Mortality<br><br>**Acute - EC50 - Fresh water**<br>Algae - Green algae - *Raphidocelis subcapitata*<br>33 mg/l [96 hours]<br>Effect: Population |
| 1,4-naphthoquinone | **Acute - LC50 - Fresh water**<br>OECD 203 |

# SECTION 12: Ecological information

Fish - *Medaka*
0.0448 mg/l [96 hours]

**Acute - EC50**
OECD 202
Daphnia - *Daphnia magna*
0.026 mg/l [48 hours]

**EC50 - Fresh water**
OECD 201
Algae - *Pseudokirchneriella subcapitata*
0.42 mg/l [72 hours]

**NOEC - Fresh water**
OECD
Algae - *Pseudokirchneriella subcapitata*
0.0697 mg/l [72 hours]

**Conclusion/Summary [Product]** : Not available.

### 12.2 Persistence and degradability

| Product/ingredient name | Result |
|---|---|
| 1,4-naphthoquinone | OECD 301F<br>0% [28 days] - Not readily |

**Conclusion/Summary [Product]** : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| 1,4-naphthoquinone | - | - | Not readily |

### 12.3 Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| styrene | 2.96 | 13.49 | Low |
| 1,4-naphthoquinone | 1.71 | - | 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 | P | B | T | vPvB | vP | vB |
|---|---|---|---|---|---|---|---|
| styrene | No | N/A | No | Yes | No | N/A | No |
| 1,4-naphthoquinone | 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** : The classification of the product may meet the criteria for a hazardous waste.

**Packaging**

**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. 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** | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| **14.2 UN proper shipping name** | - | - | - | - |
| **14.3 Transport hazard class(es)** | - | - | - | - |
| **14.4 Packing group** | - | - | - | - |
| **14.5 Environmental hazards** | No. | No. | No. | No. |

**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.

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

No listed substance

**Seveso Directive**

This product is not controlled under the Seveso Directive.

**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 by Rail
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

**Procedure used to derive the classification**

## SECTION 16: Other information

| Classification | Justification |
|---|---|
| Skin Irrit. 2, H315 | Calculation method |
| Eye Irrit. 2, H319 | Calculation method |
| Repr. 2, H361d | Calculation method |
| STOT RE 1, H372 | Calculation method |

**Full text of abbreviated H statements**

| | |
|---|---|
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H361d | Suspected of damaging the unborn child. |
| H372 | Causes 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. |

**Full text of classifications**

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

**Date of issue/ Date of revision** : 8/28/2026

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**Notice to reader**

**This product is intended for industrial use only.**

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## SECTION 16: Other information

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