

SAFETY DATA SHEET



Date of issue/Date of revision

: 20 April 2026

Version

: 1.06

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

1.1 Product identifier

Product name : PITT-CHAR NX HARDENER BLACK
Product code : 000010023518
Product type : Liquid.
Other means of identification : 00392639; 00461156 ; 4P656-C9000/14.2K ; 5P656-K9000/14.2K

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

Product use : Professional applications, Used by spraying.
Use of the substance/mixture : Coating.
Uses advised against : Product is not intended, labelled or packaged for consumer use.

1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL
Tweemontstraat 104
B-2100 Deurne
Belgium
Telephone +32-33606311
Fax +32-33606435

e-mail address of person responsible for this SDS : Product.Stewardship.EMEA@ppg.com

1.4 Emergency telephone number

Supplier
+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture
Classification according to UK CLP/GHS
Skin Corr. 1B, H314
Eye Dam. 1, H318
Skin Sens. 1, H317
Carc. 2, H351
Repr. 2, H361f
Aquatic Chronic 2, H411

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

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SECTION 2: Hazards identification

Hazard statements : Causes severe skin burns and eye damage.
 May cause an allergic skin reaction.
 Suspected of causing cancer.
 Suspected of damaging fertility.
 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment.

Response : Collect spillage. IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.
 P280, P273, P391, P304 + P310, P301 + P310, P501

Supplemental label elements : Contains epoxy constituents. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : 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 : Causes digestive tract burns.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

| Product/ingredient name | Identifiers | % | Classification | Type |
|---|---|------------|---|------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | REACH #: 01-2119972320-44 EC: 500-191-5 CAS: 68082-29-1 | ≥50 - ≤75 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411 | [1] |
| 1,3,5-triazine-2,4,6-triamine | REACH #: 01-2119485947-16 EC: 203-615-4 CAS: 108-78-1 Index: 613-345-00-2 | ≥5.0 - <10 | Carc. 2, H351 (oral) Repr. 2, H361f STOT RE 2, H373 (urinary system) | [1] |
| Cashew, nutshell liq. | REACH #: 01-2119502450-57 EC: 700-991-6 CAS: 8007-24-7 | ≥5.0 - ≤10 | Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 | [1] |
| 2,4,6-tris(dimethylaminomethyl) phenol | REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 | ≥5.0 - ≤10 | Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 | [1] |

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SECTION 3: Composition/information on ingredients

| | | | | |
|--|---|-------------|---|-----|
| 3,6-diazaoctanethylenediamin | EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5 | ≥5.0 - ≤10 | Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 | [1] |
| epoxy resin (MW ≤ 700) | REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 | ≥1.0 - ≤5.0 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 | [1] |
| 2,2-bis(acryloyloxymethyl)butyl acrylate | REACH #: 01-2119489896-11 EC: 239-701-3 CAS: 15625-89-5 Index: 607-111-00-9 | ≥1.0 - ≤5.0 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) 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 health or environmental hazard

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention. In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- 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

Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes severe burns. May cause an allergic skin reaction.

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SECTION 4: First aid measures

Ingestion : Corrosive to the digestive tract. Causes burns.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
 pain
 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:
 pain or irritation
 redness
 blistering may occur
 reduced foetal weight
 increase in foetal deaths
 skeletal malformations

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

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 : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products : Decomposition products may include the following materials:
 carbon oxides
 nitrogen oxides
 halogenated compounds

5.3 Advice for firefighters

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS EN 469 will provide a basic level of protection for chemical incidents.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- 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

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

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SECTION 7: Handling and storage

Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

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).

Occupational exposure limits

No exposure limit value known.

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 | Type | Exposure | Value | Population | Effects | |
|---|-------------------------------|-----------------------|-------------------------|------------------------|--------------------|----------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | DNEL | Long term Oral | 97.2 µg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Dermal | 97.2 µg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Inhalation | 0.169 mg/m ³ | General population | Systemic | |
| | DNEL | Long term Dermal | 0.272 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Long term Inhalation | 0.952 mg/m ³ | Workers | Systemic | |
| | 1,3,5-triazine-2,4,6-triamine | DNEL | Long term Oral | 0.42 mg/kg bw/day | General population | Systemic |
| | | DNEL | Long term Inhalation | 1.5 mg/m ³ | General population | Systemic |
| | | DNEL | Long term Dermal | 4.2 mg/kg bw/day | General population | Systemic |
| | | DNEL | Long term Inhalation | 8.3 mg/m ³ | Workers | Systemic |
| | | DNEL | Long term Dermal | 11.8 mg/kg bw/day | Workers | Systemic |
| DNEL | | Short term Inhalation | 82.3 mg/m ³ | Workers | Systemic | |
| DNEL | | Short term Dermal | 117 mg/kg bw/day | Workers | Systemic | |
| Cashew, nutshell liq. | | DNEL | Long term Oral | 0.75 mg/kg bw/day | General population | Systemic |
| | | DNEL | Long term Dermal | 0.75 mg/kg bw/day | General population | Systemic |
| | | DNEL | Long term Inhalation | 1.31 mg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 2.1 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Long term Inhalation | 7.4 mg/m ³ | Workers | Systemic | |
| | DNEL | Long term Oral | 0.075 mg/kg bw/day | General population | Systemic | |
| 2,4,6-tris (dimethylaminomethyl)phenol | DNEL | Short term Dermal | 0.075 mg/kg bw/day | General population | Systemic | |
| | DNEL | Long term Dermal | 0.075 mg/kg bw/day | General population | Systemic | |
| | DNEL | Short term Inhalation | 0.13 mg/m ³ | General population | Systemic | |
| | DNEL | Long term Inhalation | 0.13 mg/m ³ | General population | Systemic | |
| | DNEL | Long term Dermal | 0.15 mg/kg bw/day | Workers | Systemic | |

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SECTION 8: Exposure controls/personal protection

| | | | | | |
|---|------------------------|-----------------------|-------------------------|--------------------------------|----------|
| 3,6-diazaoctanethylenediamin | DNEL | Long term Inhalation | 0.53 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Dermal | 0.6 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 2.1 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 28 µg/cm ² | Workers | Local |
| | DNEL | Long term Dermal | 0.25 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 0.29 mg/m ³ | General population | Systemic |
| | DNEL | Long term Oral | 0.41 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.43 mg/cm ² | General population | Local |
| | DNEL | Long term Dermal | 0.57 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Dermal | 1 mg/cm ² | General population | Local |
| | DNEL | Long term Inhalation | 1 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Dermal | 8 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Oral | 20 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Inhalation | 1600 mg/m ³ | General population | Systemic |
| | epoxy resin (MW ≤ 700) | DNEL | Short term Inhalation | 5380 mg/m ³ | Workers |
| DNEL | | Long term Inhalation | 12.25 mg/m ³ | Workers | Systemic |
| DNEL | | Short term Inhalation | 12.25 mg/m ³ | Workers | Systemic |
| DNEL | | Long term Dermal | 8.33 mg/kg bw/day | Workers | Systemic |
| DNEL | | Short term Dermal | 8.33 mg/kg bw/day | Workers | Systemic |
| DNEL | | Long term Dermal | 3.571 mg/kg bw/day | General population [Consumers] | Systemic |
| DNEL | | Short term Dermal | 3.571 mg/kg bw/day | General population [Consumers] | Systemic |
| DNEL | | Long term Oral | 0.75 mg/kg bw/day | General population [Consumers] | Systemic |
| DNEL | | Short term Oral | 0.75 mg/kg bw/day | General population [Consumers] | Systemic |
| 2,2-bis(acryloyloxymethyl) butyl acrylate | | DNEL | Long term Inhalation | 17.1 mg/m ³ | Workers |
| | DNEL | Long term Dermal | 404 mg/kg bw/day | Workers | Systemic |

PNECs

| Product/ingredient name | Compartment Detail | Value | Method Detail | |
|---|------------------------|------------------------|--------------------------|--------------------------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | Fresh water | 0.043 mg/l | Assessment Factors | |
| | Marine water | 0 mg/l | Assessment Factors | |
| | Sewage Treatment Plant | 3.84 mg/l | Assessment Factors | |
| | Fresh water sediment | 434.02 mg/kg dwt | Equilibrium Partitioning | |
| | Marine water sediment | 43.4 mg/kg dwt | Equilibrium Partitioning | |
| | Soil | 86.78 mg/kg dwt | Equilibrium Partitioning | |
| | epoxy resin (MW ≤ 700) | Fresh water | 0.006 mg/l | Assessment Factors |
| | | Marine water | 0.001 mg/l | Assessment Factors |
| | | Sewage Treatment Plant | 10 mg/l | Assessment Factors |
| | | Fresh water sediment | 0.996 mg/kg dwt | Equilibrium Partitioning |
| | | Marine water sediment | 0.1 mg/kg dwt | Equilibrium Partitioning |

8.2 Exposure controls

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

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SECTION 8: Exposure controls/personal protection


- 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** : Chemical splash goggles and face shield.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. 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.
 polyethylene butyl rubber
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- 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** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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** : Black.
- Odour** : Characteristic.
- Odour threshold** : Not available.
- Melting point/freezing point** :
- Initial boiling point and boiling range** : >37.78°C (>100°F)
- Flammability (solid, gas)** : liquid
- Upper/lower flammability or explosive limits** : Not available.
- Flash point** : losed cup: 93°C (199.4°F)

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SECTION 9: Physical and chemical properties

Auto-ignition temperature :

| Ingredient name | °C | °F | Method |
|------------------------------|--------|-----|--------|
| 3,6-diazaoctanethylenediamin | 337.78 | 640 | |

pH : Not applicable.
 Not applicable. insoluble in water.

Viscosity : Dynamic (room temperature): Not available.
 Kinematic (room temperature): Not available.
 Kinematic (40°C): >21 mm²/s

Solubility(ies) :

| Media | Result |
|------------|-------------|
| cold water | Not soluble |

Miscible with water : No.

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

Vapour pressure :

| Ingredient name | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|--|-------------------------|--------|--------|-------------------------|-----|--------|
| | mm Hg | kPa | Method | mm Hg | kPa | Method |
| 2,4,6-tris(dimethylaminomethyl) phenol | 0.056 | 0.0075 | EU A.4 | | | |

Relative density : 1.1

Explosive properties : The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.

Oxidising properties : Product does not present an oxidizing hazard.

Particle characteristics

Median particle size : Not applicable.

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 : The product is stable.

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. Refer to protective measures listed in sections 7 and 8.

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 : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds

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SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|--|---------------|--|--------------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | LD50 Dermal | Rat | >2000 mg/kg | - |
| 1,3,5-triazine-2,4,6-triamine | LD50 Oral LC50 Inhalation Dusts and mists | Rat Rat | >2000 mg/kg >5190 mg/m ³ | - 4 hours |
| 2,4,6-tris(dimethylaminomethyl)phenol | LD50 Oral LD50 Dermal | Rat Rat | 3161 mg/kg 1280 mg/kg | - - |
| 3,6-diazaoctanethylenediamin | LD50 Oral LD50 Dermal | Rat Rabbit | 1200 mg/kg 1465 mg/kg | - - |
| epoxy resin (MW ≤ 700) | LD50 Oral LD50 Dermal | Rat Rabbit | 1716 mg/kg >2 g/kg | - - |
| 2,2-bis(acryloyloxymethyl)butyl acrylate | LD50 Oral LD50 Dermal | Rat Rabbit | >2 g/kg 5170 mg/kg | - - |
| | LD50 Oral | Rat | 5.19 g/kg | - |

Conclusion/Summary : There are no data available on the mixture itself.**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) |
|--|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| PITT-CHAR NX HARDENER BLACK | 4338.5 | 6601.3 | N/A | N/A | N/A |
| 1,3,5-triazine-2,4,6-triamine | 3161 | N/A | N/A | N/A | N/A |
| Cashew, nutshell liq. | 500 | 1100 | N/A | N/A | N/A |
| 2,4,6-tris(dimethylaminomethyl)phenol | 1200 | 1280 | N/A | N/A | N/A |
| 3,6-diazaoctanethylenediamin | 1716 | 1465 | N/A | N/A | N/A |
| 2,2-bis(acryloyloxymethyl)butyl acrylate | 5190 | 5170 | N/A | N/A | N/A |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|------------------|--------|----------|-------------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | Eyes - Severe irritant | Rabbit | - | - | - |
| epoxy resin (MW ≤ 700) | Skin - Irritant Eyes - Mild irritant | Human Rabbit | - - | - - | - - |
| 2,2-bis(acryloyloxymethyl)butyl acrylate | Skin - Mild irritant Skin - Irritant | Rabbit Rabbit | - - | - - | - - |

Conclusion/Summary : Not available.**Skin** : There are no data available on the mixture itself.**Eyes** : There are no data available on the mixture itself.**Respiratory** : There are no data available on the mixture itself.**Sensitisation**

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SECTION 11: Toxicological information

| Product/ingredient name | Route of exposure | Species | Result |
|---|-------------------|------------|-------------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | skin | Mouse | Sensitising |
| 3,6-diazaoctanethylenediamin epoxy resin (MW ≤ 700) | skin | Guinea pig | Sensitising |
| 2,2-bis(acryloyloxymethyl) butyl acrylate | skin | Mouse | Sensitising |
| | skin | Rabbit | Sensitising |

Conclusion/Summary

Skin : There are no data available on the mixture itself.

Respiratory : There are no data available on the mixture itself.

Mutagenicity

Conclusion/Summary : There are no data available on the mixture itself.

Carcinogenicity

Conclusion/Summary : There are no data available on the mixture itself.

Reproductive toxicity

Conclusion/Summary : There are no data available on the mixture itself.

Teratogenicity

Conclusion/Summary : There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------------|------------|-------------------|----------------|
| 1,3,5-triazine-2,4,6-triamine | Category 2 | - | urinary system |

Aspiration hazard

Not available.

Information on likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes severe burns. May cause an allergic skin reaction.

Ingestion : Corrosive to the digestive tract. Causes burns.

Symptoms related to the physical, chemical and toxicological characteristics

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

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

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SECTION 11: Toxicological information

- Skin contact** : Adverse symptoms may include the following:
 pain or irritation
 redness
 blistering may occur
 reduced foetal weight
 increase in foetal deaths
 skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
 stomach pains
 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** : Not available.
General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity : No known significant effects or critical hazards.
Reproductive toxicity : Suspected of damaging fertility.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|-----------------------|---------|----------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | EC10 1.78 mg/l | Algae | 72 hours |
| 1,3,5-triazine-2,4,6-triamine | Acute EC50 200 mg/l | Daphnia | 48 hours |
| 2,4,6-tris(dimethylaminomethyl) phenol | Acute LC50 >100 mg/l | Daphnia | 48 hours |
| epoxy resin (MW ≤ 700) | Acute LC50 >100 mg/l | Fish | 96 hours |
| | Acute LC50 1.8 mg/l | Daphnia | 48 hours |
| | Chronic NOEC 0.3 mg/l | Daphnia | 21 days |
| 2,2-bis(acryloyloxymethyl) butyl acrylate | Acute LC50 0.87 mg/l | Fish | 96 hours |

Conclusion/Summary : Not available.

12.2 Persistence and degradability

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SECTION 12: Ecological information

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---|--|-----------------------------|------|----------|
| 2,4,6-tris (dimethylaminomethyl) phenol | OECD Ready Biodegradability - Closed Bottle Test | 4 % - Not readily - 28 days | - | - |
| epoxy resin (MW ≤ 700) | OECD 301F | 5 % - 28 days | - | - |

Conclusion/Summary : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | - | - | Not readily |
| 2,4,6-tris (dimethylaminomethyl) phenol | - | - | Not readily |
| epoxy resin (MW ≤ 700) | - | - | Not readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|---|--------------------|-----|-----------|
| 1,3,5-triazine-2,4,6-triamine | -1.22 | 3.8 | Low |
| Cashew, nutshell liq. | >4.78 | - | High |
| 2,4,6-tris (dimethylaminomethyl) phenol | 0.219 | - | Low |
| 3,6-diazaoctanethylenediamin | -1.66 to -1.4 | - | Low |
| epoxy resin (MW ≤ 700) | 3 | 31 | Low |
| 2,2-bis(acryloyloxymethyl) butyl acrylate | 0.67 | - | Low |

12.4 Mobility in soil

Soil/water partition coefficient : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

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

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SECTION 13: Disposal considerations

Waste catalogue

| Waste code | Waste designation |
|------------|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |

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 |
|-------------------|--------------------------|
| Container | 15 01 06 mixed packaging |

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 | UN3066 | UN3066 | UN3066 | UN3066 |
| 14.2 UN proper shipping name | PAINT | PAINT | PAINT | PAINT |
| 14.3 Transport hazard class(es) | 8 | 8 | 8 | 8 |
| 14.4 Packing group | II | II | II | II |
| 14.5 Environmental hazards | Yes. | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant substances | Not applicable. | Not applicable. | (Polyamide) | Not applicable. |

Additional information

ADR/RID : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code : (E)
ADN : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.

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.

| | |
|-----------------------------|---|
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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.

Explosive precursors : Not applicable.

Ozone depleting substances

Not listed.

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

| Product/ingredient name | Entry Number (REACH) |
|-----------------------------|----------------------|
| PITT-CHAR NX HARDENER BLACK | 3 |

Labelling : Not applicable.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

| Category |
|----------|
| E2 |

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: 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
 N/A = Not available
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number
 SGG = Segregation Group
 vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

| Classification | Justification |
|-------------------------|--------------------|
| Skin Corr. 1B, H314 | Calculation method |
| Eye Dam. 1, H318 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| Carc. 2, H351 | Calculation method |
| Repr. 2, H361f | Calculation method |
| Aquatic Chronic 2, H411 | Calculation method |

Full text of abbreviated H statements

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SECTION 16: Other information

| | |
|-------|--|
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| 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. |
| H351 | Suspected of causing cancer. |
| H361f | Suspected of damaging fertility. |
| 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. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Full text of classifications

| | |
|-------------------|---|
| 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 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Carc. 2 | CARCINOGENICITY - Category 2 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Repr. 2 | REPRODUCTIVE TOXICITY - Category 2 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Corr. 1C | SKIN CORROSION/IRRITATION - Category 1C |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |

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