

SAFETY DATA SHEET

PITT-THERM 1000 FX HARDENER WHITE



Date of issue 2 June 2026

Version 2

1. Product and company identification

Product name : PITT-THERM 1000 FX HARDENER WHITE
Product code : 000001195615
Other means of identification : 00468574; 00478921 ; 468574
Product type : Liquid.

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 : Not applicable.

Supplier's details : PPG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe 652-0803 Japan; Tel: +81-78-574-2777

Emergency telephone number : 078 574 2777

2. Hazards identification

GHS Classification : ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 4
SKIN CORROSION - Category 1
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 1A
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 3
HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD - Category 2

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : Harmful if swallowed or in contact with skin.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May cause cancer.
May cause damage to organs. (central nervous system (CNS), kidneys)
May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS))

2. Hazards identification

Harmful to aquatic life.
Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response

: Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage

: Store locked up.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification : Causes digestive tract burns.

3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

CAS number : Not applicable.

CSCL number : Not available.

| Ingredient name | % | CAS number | CSCL |
|---|------------|---------------------|---------------------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | 25 - <50 | 68082-29-1 | 7-401 |
| Cashew, nutshell liq. | 5 - <7 | 8007-24-7 | Not available. |
| benzyl alcohol | 5 - <7 | 100-51-6 | 3-1011 |
| Poly[oxy(methyl-1,2-ethanediy)], α -(2-aminomethylethyl)- ω -(2-aminomethylethoxy)-Triethylenetetramine | 5 - <7 | 9046-10-0 (n = 2-6) | (7)-324 |
| Triethylenetetramine | 3 - <5 | 112-24-3 | 2-163; 7-5 |
| 2,4,6-Tris(dimethylaminomethyl)phenol | 3 - <5 | 90-72-2 | 3-714; 3-762; 3-776 |
| Silica (silicon dioxide containing crystalline and amorphous) | 0.2 - <0.5 | 7631-86-9 | 1-548 |
| N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | 0.2 - <0.5 | 123-26-2 | 2-2720 |
| Methacrylonitrile | <0.1 | 126-98-7 | (2)-1514 |

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 and hence require reporting in this section.

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

SUB codes represent substances without registered CAS Numbers.

4. First aid measures

Description of necessary 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.
- 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 recognized skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, 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. Harmful in contact with skin. May cause damage to organs following a single exposure in contact with skin. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed. Corrosive to the digestive tract. Causes burns. May cause damage to organs following a single exposure if swallowed.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

- 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.
- 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.

See toxicological information (Section 11)

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : 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 thermal decomposition products : Decomposition products may include the following materials:
carbon oxides
nitrogen oxides
metal oxide/oxides

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.

6. Accidental release measures

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 spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized 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".

Environmental precautions : Avoid dispersal of spilled 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.

Methods and materials 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 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 spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Precautions for safe handling : 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. 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 vapor 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.

Conditions for safe 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

benzyl alcohol

Japan Society for Occupational Health (Japan, 5/2024) Skin sensitizer.

OEL-C: 25 mg/m³.

Technical Guideline Concerning the Applications, etc. of Concentration Standard for Preventing Health Hazards (Japan, 6/2024)

TWA 8 hours: 1 ppm.

methacrylonitrile

Recommended monitoring procedures : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor 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.

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.

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 protection : Chemical splash goggles and face shield.

Skin protection

8. Exposure controls/personal 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.
- Gloves** : nitrile neoprene
- 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.

9. Physical and chemical properties

Appearance

- Physical state** : Liquid.
- Color** : White.
- Odor** : Characteristic.
- Boiling point** : >37.78°C (>100°F)
- Flash point** : Closed cup: 128°C (262.4°F)
- Relative density** : 0.56

Solubility(ies)

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

10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.
- Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
- Hazardous decomposition products** : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides

10. Stability and reactivity

11. Toxicological information

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 | - |
| benzyl alcohol | LD50 Oral | Rat | >2000 mg/kg | - |
| | LC50 Inhalation Dusts and mists | Rat | >5 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)- | LD50 Oral | Rat | 1200 mg/kg | - |
| | LD50 Dermal | Rat | 2980 mg/kg | - |
| Triethylenetetramine | LD50 Oral | Rat | 2885 mg/kg | - |
| | LD50 Dermal | Rabbit | 1465 mg/kg | - |
| | LD50 Oral | Rat | 1716 mg/kg | - |
| 2,4,6-Tris(dimethylaminomethyl)phenol | LD50 Dermal | Rat | 1280 mg/kg | - |
| | LD50 Oral | Rat | 1200 mg/kg | - |
| Silica (silicon dioxide containing crystalline and amorphous) | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat - Male, Female | >5000 mg/kg | - |
| N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | LC50 Inhalation Dusts and mists | Rat | >5.11 mg/l | 4 hours |
| Methacrylonitrile | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >2000 mg/kg | - |
| | LC50 Inhalation Gas. | Rat | 328 ppm | 4 hours |
| | LC50 Inhalation Vapor | Rat - Male | 328 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 12500 µg/kg | - |
| | LD50 Dermal | Rat | 2080 mg/kg | - |
| | LD50 Oral | Rat | 120 mg/kg | - |

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 | - | - | - |
| | Skin - Irritant | Human | - | - | - |

Sensitization

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 | Sensitizing |
| Triethylenetetramine | skin | Guinea pig | Sensitizing |

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|---|------------|-------------------|---------------------------------------|
| benzyl alcohol | Category 1 | - | central nervous system (CNS), kidneys |
| - | Category 3 | - | Narcotic effects |
| Triethylenetetramine | Category 3 | - | Respiratory tract irritation |
| Silica (silicon dioxide containing crystalline and amorphous) | Category 3 | - | Respiratory tract irritation |
| Methacrylonitrile | Category 1 | - | central nervous system (CNS) |
| - | Category 3 | - | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

| Name | Category | Route of exposure | Target organs |
|---|------------|-------------------|--|
| benzyl alcohol | Category 1 | - | central nervous system (CNS) |
| Silica (silicon dioxide containing crystalline and amorphous) | Category 1 | - | immune system, kidneys, respiratory organs |
| Methacrylonitrile | Category 1 | - | central nervous system (CNS) |
| - | Category 2 | - | blood system, liver, nasal cavity |

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

11. Toxicological information

- Eye contact** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes severe burns. Harmful in contact with skin. May cause damage to organs following a single exposure in contact with skin. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed. Corrosive to the digestive tract. Causes burns. May cause damage to organs following a single exposure if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

Delayed and immediate effects and also 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

- General** : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| PITT-THERM 1000 FX HARDENER WHITE | 1961.2 | 1492.3 | N/A | N/A | N/A |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | 2500 | 2500 | N/A | N/A | N/A |
| Cashew, nutshell liq. | 500 | 1100 | N/A | N/A | N/A |
| benzyl alcohol | 1200 | 1100 | N/A | N/A | N/A |
| Poly[oxy(methyl-1,2-ethanediyl)], α - | 2885 | 2980 | N/A | N/A | N/A |
| (2-aminomethylethyl)- ω -(2-aminomethylethoxy)-Triethylenetetramine | N/A | 300 | N/A | N/A | N/A |

11. Toxicological information

| | | | | | |
|--|------|------|-----|-----|-----|
| 2,4,6-Tris(dimethylaminomethyl)phenol | 1200 | 1280 | N/A | N/A | N/A |
| N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | 2500 | 2500 | N/A | N/A | N/A |
| Methacrylonitrile | 120 | 300 | N/A | 0.5 | N/A |

Other information :

Causes digestive tract burns. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

12. Ecological information

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 |
| Poly[oxy(methyl-1,2-ethanediyl)], α -(2-aminomethylethyl)- ω -(2-aminomethylethoxy)-2,4,6-Tris(dimethylaminomethyl)phenol | EC50 15 mg/l | Algae | 72 hours |
| Silica (silicon dioxide containing crystalline and amorphous) | Acute LC50 >100 mg/l | Daphnia | 48 hours |
| | Acute LC50 >100 mg/l | Fish | 96 hours |
| | Acute EC50 2.2 g/L Fresh water | Daphnia - <i>Daphnia magna</i> - Neonate | 48 hours |
| | Acute LC50 >10000 mg/l Chronic NOEC 12.5 mg/l Fresh water | Fish Daphnia - <i>Daphnia magna</i> - Neonate | 96 hours 21 days |
| N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | Acute EC50 29 to 43 mg/l | Algae - <i>Pseudokirchneriella subcapitata</i> | 72 hours |
| | Acute EC50 94 mg/l | Daphnia - <i>Daphnia magna</i> | 48 hours |

Persistence/degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|--|--|-----------------------------|------|----------|
| 2,4,6-Tris(dimethylaminomethyl)phenol | OECD Ready Biodegradability - Closed Bottle Test | 4 % - Not readily - 28 days | - | - |
| N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | - | 63 % - 28 days | - | - |

12. Ecological information

| 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 |
| benzyl alcohol | - | - | Readily |
| Poly[oxy(methyl-1,2-ethanediyl)], α -(2-aminomethylethyl)- ω -(2-aminomethylethoxy)-2,4,6-Tris(dimethylaminomethyl)phenol | - | - | Not readily |
| N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | - | - | Readily |

Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|--|--------------------|-----|-----------|
| Cashew, nutshell liq. | >4.78 | - | High |
| benzyl alcohol | 0.87 | - | Low |
| Triethylenetetramine | -1.66 to -1.4 | - | Low |
| 2,4,6-Tris(dimethylaminomethyl)phenol | 0.219 | - | Low |
| N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) | >6 | - | High |
| Methacrylonitrile | 0.68 | - | Low |

Mobility in soil

Soil/Water partition coefficient : Not available.

Mobility : Not available.

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

13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

| | UN | IMDG | IATA |
|-----------------------------|--|-------------|--|
| UN number | UN3066 | UN3066 | UN3066 |
| UN proper shipping name | PAINT | PAINT | PAINT |
| Transport hazard class(es) | 8 | 8 | 8 |
| Packing group | III | III | III |
| Environmental hazards | Yes. The environmentally hazardous substance mark is not required. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant substances | Not applicable. | (Polyamide) | Not applicable. |

Additional information

UN : None identified.

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.

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.

Transport in bulk according to IMO instruments : Not applicable.

15. Regulatory information

Fire Service Law

| Category | Substance name/Type | Danger category | Signal word | Designated quantity |
|-------------|---------------------|-----------------|----------------------------|---------------------|
| Category IV | Class III petroleum | III | Flammable - Keep Fire Away | 2000 L |

Pollutant Release and Transfer Registers (PRTR)

| Ingredient name | | | |
|----------------------|-----|---------|-----|
| Triethylenetetramine | 4.8 | Class 2 | 278 |

Industrial Safety and Health Act

Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

None of the components are listed.

Substance(s) requiring labelling

15. Regulatory information

| Ingredient name | % | Status | Reference number |
|--|-----|--------|------------------|
| ☑ Benzyl alcohol | ≤10 | Listed | 2-1899 |
| N,N'-Bis(2-aminoethyl)ethane-1,2-diamine | ≤10 | Listed | 2-1569 |
| 2,4,6-Tris(dimethylaminomethyl)phenol | ≤10 | Listed | 2-1379 |
| Silica, crystalline | ≤10 | Listed | 2-578 |

Chemicals requiring notification

| Ingredient name | % | Status | Reference number |
|--|-----|--------|------------------|
| ☑ Benzyl alcohol | ≤10 | Listed | 2-1899 |
| N,N'-Bis(2-aminoethyl)ethane-1,2-diamine | ≤10 | Listed | 2-1569 |
| 2,4,6-Tris(dimethylaminomethyl)phenol | ≤10 | Listed | 2-1379 |
| Silica, crystalline | ≤10 | Listed | 2-578 |

Carcinogens based on Article 577-2 of the Ordinance on ISH

| Ingredient name | % | Status | Reference number |
|-----------------|-----|--------|------------------|
| silicon dioxide | ≤10 | Listed | - |

Mutagen

None of the components are listed.

- Corrosive liquid** : Not listed
- Occupational Safety and Health Law** : Not applicable.
- Regulations on the Prevention of Tetraalkyl Lead Poisoning** : Not listed
- Harmful Substances Subject to Obtaining Permission for Manufacturing** : Not listed
- Harmful Substances, Prohibited for Manufacturing** : Not listed
- Lead regulation** : Not listed
- Organic solvents poisoning prevention** : Not applicable.

Poisonous and Deleterious Substances

| Ingredient name | % | Status | Reference number |
|-------------------|------------|-------------|------------------|
| Methacrylonitrile | 0.00063916 | Deleterious | 2-1-32 |
| acrylonitrile | 0.00031197 | Deleterious | 2-1-32 |

Chemical Substances Control Law (CSCL)

| Ingredient name | % | Status | Reference number |
|-----------------|-----|---------------------|------------------|
| Acrylonitrile | ≤10 | Priority assessment | 39 |

High Pressure Gas Control Law : Not available.

15. Regulatory information

Explosives Control Law

None of the components are listed.

Law concerning prevention of pollution of the ocean : Not available.

Maritime Safety Law

Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

Container class

None of the components are listed.

JSOH Carcinogen : Not listed

List of Specially Controlled Industrial Waste : Not listed

Japan inventory : All components are listed or exempted.

Road law : Not available.

16. Other information

History

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Key to abbreviations : 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
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
UN = United Nations

📌 Indicates information that has changed from previously issued version.

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