# SAFETY DATA SHEET

PPG SSC Co., Ltd.

**Date of issue** 11/13/2026 (month/day/year)
**Version** 3.02

## Section 1. Chemical product and company identification

**A. Product name** : SIGMADUR 550 BASE CNC 4166
**Product code** : 00468269

**B. 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.

**C. Supplier's or Importer's information** : PPG SSC
(44714)
19, Yeocheon-ro 217beon-gil, Nam-gu,
Ulsan, Korea
Tel: +82-52-210-8222
**Email Address** Korea.MSDS@PPG.COM
**Emergency telephone number:** : +82-52-210-8331

## Section 2. Hazards identification

**A. Hazard classification** : FLAMMABLE LIQUIDS - Category 3
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
GERM CELL MUTAGENICITY - Category 1B
CARCINOGENICITY - Category 1B
TOXIC TO REPRODUCTION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 3
This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

**B. GHS label elements, including precautionary statements**

**Symbol** :



# Section 2. Hazards identification

**Signal word** : Danger

**Hazard statements** :
H226 - Flammable liquid and vapor.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H340 - May cause genetic defects.
H350 - May cause cancer.
H361 - Suspected of damaging fertility or the unborn child.
H372 - Causes damage to organs through prolonged or repeated exposure.
H412 - Harmful to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention** :
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves, protective clothing and eye or face protection.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 - Use explosion-proof electrical, ventilating or lighting equipment.
P241 - Use explosion-proof electrical, ventilating or lighting equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P240 - Ground and bond container and receiving equipment.
P273 - Avoid release to the environment.
P260 - Do not breathe vapor.
P270 - Do not eat, drink or smoke when using this product.
P264 - Wash thoroughly after handling.

**Response** :
P370 + P378 - In case of fire: Never use water to extinguish.
P308 + P313 - IF exposed or concerned: Get medical advice or attention.
P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice or attention.
P321 - Specific treatment (see the label).

**Storage** :
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 - Keep cool.

**Disposal** :
P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**C. Other hazards which do not result in classification** : Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

## CAS number/other identifiers

**CAS number** : Not applicable.

| Chemical name | Common name | Identifiers | % |
|---|---|---|---|
| Titanium dioxide | TITANIUM DIOXIDE | CAS: 13463-67-7<br>EC: 236-675-5 | 30 - <40 |
| xylene | XYLENES | CAS: 1330-20-7<br>EC: 215-535-7 | 20 - <30 |
| ethylbenzene | ETHYLBENZENE | CAS: 100-41-4<br>EC: 202-849-4 | 1 - <5 |
| propylene glycol methyl ether acetate | 1-METHOXY-2-PROPYL ACETATE | CAS: 108-65-6<br>EC: 203-603-9 | 1 - <5 |
| Octadecanamide, N,N'-1,6-hexanediylbis [12-hydroxy- | N,N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE) | CAS: 55349-01-4 | 1 - <5 |
| bis(1,2,2,6,6,-pentamethyl-4-piperidyl) dethanedionic acid | BIS(PENTAMETHYLPIPERIDYL) SEBACATE | CAS: 41556-26-7<br>EC: 255-437-1 | 0.1 - <1 |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC | SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC | CAS: 64742-95-6<br>EC: 265-199-0 | 0.1 - <1 |
| CASTOR OIL, HYDROGENATED | CASTOR OIL, HYDROGENATED | CAS: 8001-78-3<br>EC: 232-292-2 | 0.1 - <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 and hence require reporting in this section.**

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

# Section 4. First aid measures

**A. Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

**B. 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.

**C. 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.

**D. Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

**E. 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 4. First aid measures

**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)**

# Section 5. Fire-fighting measures

**A. Extinguishing media**

**Suitable extinguishing media** : Use dry chemical, $CO_2$, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

**B. Specific hazards arising from the chemical** : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful 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
sulfur oxides
metal oxide/oxides

**C. Special equipment for fire-fighting** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Fire-fighting procedures** : 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

# Section 6. Accidental release measures

**A. Personal precautions, protective equipment and emergency procedures** : 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor. Put on appropriate personal protective equipment. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

**B. 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.

**C. Methods and materials for containment and cleaning up**

# Section 6. Accidental release measures

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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.

# Section 7. Handling and storage

**A. 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. 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 vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**B. Conditions for safe storage, including any incompatibilities** : Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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.

# Section 8. Exposure controls/personal protection

**A. Occupational exposure limits**

| Ingredient name | Exposure limits |
|---|---|
| Titanium dioxide | **ISHA articles 106 and 125 (Republic of Korea, 1/2020)**<br>TWA 8 hours: 10 mg/m³. |
| xylene | **ISHA articles 106 and 125 (Republic of Korea, 1/2020) [Xylene]**<br>STEL 15 minutes: 150 ppm.<br>TWA 8 hours: 100 ppm. |
| ethylbenzene | **ISHA articles 106 and 125 (Republic of** |

# Section 8. Exposure controls/personal protection

| | |
|---|---|
| | **Korea, 1/2020)**<br>STEL 15 minutes: 125 ppm.<br>TWA 8 hours: 100 ppm. |

**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.

**B. Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**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.

**C. Personal protective equipment**

**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.

**Eye protection** : Chemical splash goggles.

**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** : 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

**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.

# Section 9. Physical and chemical properties

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

**A. Appearance**

**Physical state** : Liquid.

**Color** : Not available.

**B. Odor** : Characteristic.

**C. Odor threshold** : Not available.

**D. pH** : Not applicable.

**E. Melting/freezing point** : Not available.

**F. Boiling point/boiling range** : >37.78°C (>100°F)

**G. Flash point** : Closed cup: 26°C (78.8°F)

**H. Evaporation rate** : Not available.

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

**J. Lower and upper explosive (flammable) limits** : Not available.

**K. Vapor pressure** :

| Ingredient name | Vapor Pressure at 20˚C | | | Vapor pressure at 50˚C | | |
|---|---|---|---|---|---|---|
| | mm Hg | kPa | Method | mm Hg | kPa | Method |
| ethylbenzene | 9.30076 | 1.2 | | | | |

**L. Solubility(ies)** :

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

**Solubility in water** : Not available.

**M. Vapor density** : Not available.

**N. Relative density** : 1.31

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

**P. Auto-ignition temperature** :

| Ingredient name | °C | °F | Method |
|---|---|---|---|
| 2-methoxy-1-methylethyl acetate | 333 | 631.4 | DIN 51794 |

**Q. Decomposition temperature** : Not available.

**R. Viscosity** : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C (104°F)): >21 $mm^2/s$ (>21 cSt)

**Flow time (ISO 2431)** : Not available.

**S. Molecular weight** : Not applicable.

# Section 10. Stability and reactivity

**A. Chemical stability** : The product is stable.

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

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

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

**D. Hazardous decomposition products** : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

# Section 11. Toxicological information

**A. Information on the likely routes of exposure** : Not available.

## Potential acute health effects

**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

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

**Skin contact** : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

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

## Over-exposure signs/symptoms

**Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations

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

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

# Section 11. Toxicological information

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

## B. Health hazards

### Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| Titanium dioxide | LC50 Inhalation Dusts and mists | Rat | >6.82 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/kg | - |
| ethylbenzene | LC50 Inhalation Vapor | Rat | 17.8 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 17.8 g/kg | - |
| | LD50 Oral | Rat | 3.5 g/kg | - |
| propylene glycol methyl ether acetate | LC50 Inhalation Vapor | Rat | 30 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | 6190 mg/kg | - |
| bis(1,2,2,6,6,-pentamethyl-4-piperidyl) dethanedionic acid | LD50 Oral | Rat | 3.125 g/kg | - |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC | LD50 Dermal | Rabbit | 3.48 g/kg | - |
| | LD50 Oral | Rat | 8400 mg/kg | - |
| CASTOR OIL, HYDROGENATED | LD50 Oral | Rat | >10 g/kg | - |

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

### Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| xylene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |

**Conclusion/Summary**
**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.

### Sensitization

**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

# Section 11. Toxicological information

**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)

| Name | Classification | Route of exposure | Target organs |
|---|---|---|---|
| xylene | Category 3 | - | Respiratory tract irritation |
| - | Category 3 | - | Narcotic effects |
| propylene glycol methyl ether acetate | Category 3 | - | Narcotic effects |

## Specific target organ toxicity (repeated exposure)

| Name | Classification | Route of exposure | Target organs |
|---|---|---|---|
| Titanium dioxide | Category 1 | - | - |
| xylene | Category 2 | - | - |
| ethylbenzene | Category 2 | - | - |

## Aspiration hazard

| Name | Result |
|---|---|
| xylene | ASPIRATION HAZARD - Category 1 |
| ethylbenzene | ASPIRATION HAZARD - Category 1 |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC | ASPIRATION HAZARD - Category 1 |

## Potential chronic health effects

**General** : Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity** : May cause genetic defects.

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

## Additional information

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. 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. Avoid contact with skin and clothing.

# Section 11. Toxicological information

| Chemical name | Identifiers | GHS Classification |
|---|---|---|
| Titanium dioxide | CAS: 13463-67-7<br>EC: 236-675-5 | CARCINOGENICITY - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 |
| xylene | CAS: 1330-20-7<br>EC: 215-535-7 | FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (dermal) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>TOXIC TO REPRODUCTION - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2<br>ASPIRATION HAZARD - Category 1 |
| ethylbenzene | CAS: 100-41-4<br>EC: 202-849-4 | FLAMMABLE LIQUIDS - Category 2<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>CARCINOGENICITY - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2<br>ASPIRATION HAZARD - Category 1<br>AQUATIC HAZARD (LONG-TERM) - Category 3 |
| propylene glycol methyl ether acetate | CAS: 108-65-6<br>EC: 203-603-9 | FLAMMABLE LIQUIDS - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| Octadecanamide, N,N'-1,6-hexanediylbis [12-hydroxy- | CAS: 55349-01-4 | SKIN SENSITIZATION - Category 1B<br>AQUATIC HAZARD (LONG-TERM) - Category 4 |
| bis(1,2,2,6,6,-pentamethyl-4-piperidyl) dethanedionic acid | CAS: 41556-26-7<br>EC: 255-437-1 | SKIN SENSITIZATION - Category 1<br>AQUATIC HAZARD (ACUTE) - Category 1<br>AQUATIC HAZARD (LONG-TERM) - Category 1 |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC | CAS: 64742-95-6<br>EC: 265-199-0 | FLAMMABLE LIQUIDS - Category 3<br>SKIN IRRITATION - Category 2<br>GERM CELL MUTAGENICITY - Category 1B<br>CARCINOGENICITY - Category 1B<br>ASPIRATION HAZARD - Category 1<br>AQUATIC HAZARD (LONG-TERM) - Category 2 |
| CASTOR OIL, HYDROGENATED | CAS: 8001-78-3<br>EC: 232-292-2 | AQUATIC HAZARD (ACUTE) - Category 1 |

# Section 12. Ecological information

## A. Ecotoxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| Titanium dioxide | Acute LC50 >100 mg/l Fresh water | Daphnia - *Daphnia magna* | 48 hours |
| ethylbenzene | Acute EC50 1.8 mg/l Fresh water | Daphnia | 48 hours |
| | Chronic NOEC 1 mg/l Fresh water | Daphnia - *Ceriodaphnia dubia* | - |
| propylene glycol methyl ether acetate | Acute LC50 134 mg/l Fresh water | Fish - *Oncorhynchus mykiss* | 96 hours |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC | Acute LC50 8.2 mg/l | Fish | 96 hours |
| CASTOR OIL, HYDROGENATED | Acute LC50 >100 mg/l | Fish | 96 hours |

## B. Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---|---|---|---|---|
| ethylbenzene | - | 79 % - Readily - 10 days | - | - |
| propylene glycol methyl ether acetate | - | 83 % - Readily - 28 days | - | - |

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| xylene | - | - | Readily |
| ethylbenzene | - | - | Readily |
| propylene glycol methyl ether acetate | - | - | Readily |

## C. Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| xylene | 3.12 | 7.4 to 18.5 | Low |
| ethylbenzene | 3.6 | 79.43 | Low |
| propylene glycol methyl ether acetate | 1.2 | - | Low |
| CASTOR OIL, HYDROGENATED | 18.75 | - | High |

## D. Mobility in soil

**Soil/Water partition coefficient** : Not available.

## E. Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

## A. 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

# Section 13. Disposal considerations

should only be considered when recycling is not feasible.

**B. Disposal 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

| | UN | IMDG | IATA |
|---|---|---|---|
| **A. UN number** | UN1263 | UN1263 | UN1263 |
| **B. UN proper shipping name** | PAINT | PAINT | PAINT |
| **C. Transport hazard class(es)** | 3 | 3 | 3 |
| **D. Packing group** | III | III | III |
| **Environmental hazards** | No. | No. | No. |
| **E. Marine pollutant substances** | Not applicable. | Not applicable. | Not applicable. |

**Additional information**

**UN** : None identified.
**IMDG** : None identified.
**IATA** : None identified.

**F. Special precaution which a user to be aware of or needs to comply with in connection with transport or tranportation**

**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.

# Section 15. Regulatory information

**A. Regulation according to ISHA**

**ISHA article 117 (Harmful substances prohibited from manufacture)** : None of the components are listed.

# Section 15. Regulatory information

**ISHA article 118 (Harmful substances requiring permission)** : None of the components are listed.

**Article 2 of Youth Protection Act on Substances Hazardous to Youth** : It is not allowed to sell to persons under the age of 19.

## Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:
titanium dioxide
xylene
ethylbenzene

**ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)** : The following components are listed: toluene, methanol, benzene, cyclohexanone, Formaldehyde, ethylene oxide

**ISHA Enforcement Regs Annex 11-5 (Harmful factors subject to Work Environment Measurement)** : The following components are listed: titanium dioxide, xylene, ethyl benzene, aluminum and its compounds

**ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check-up)** : The following components are listed: Xylene, Ethyl benzene, Aluminum and its compounds

**Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)** : The following components are listed: titanium dioxide, xylene, ethyl benzene, aluminum and its compounds

## B. Regulation according to Chemicals Control Act

**Article 11 (TRI)** : The following components are listed: Xylene including o-,m-,p- isomer, Ethylbenzene, Barium and its compounds, Aluminium and its compounds

**Article 18 Prohibited (K-Reach Article 27)** : None of the components are listed.

**Article 19 Candidate substances subject to authorization (K-Reach Article 25)** : The following components are listed: Benzene

**Article 19 Subject to authorization (K-Reach Article 25)** : None of the components are listed.

**Article 20 Restricted (K-Reach Article 27)** : None of the components are listed.

**Korea inventory** : All components are listed or exempted.

**Article 39 (Accident Precaution Chemicals)** : The following components are listed: xylene

## Substances Harmful to Human Health Acute/Chronic and Ecologically Hazardous Substances (K-REACH Article 20)

# Section 15. Regulatory information

Not applicable.

**Existing Chemical Substances Subject to Registration** : The following components are listed: Xylene, Toluene, Methanol, Benzene, 1-Methyl-2-pyrrolidinone, Naphthalene, Quartz, Quartz, Methyl oxirane, Acetaldehyde, Hydrogen chloride, Formaldehyde, Oxirane, 1,4-Diethylene dioxide, Chloromethane

**C. Regulations under the Act on Registration and Evaluation of Chemical Substances**

No unconfirmed hazards apply.

**D. Dangerous Materials Safety Management Act** : **Class:** Class 4 - Flammable Liquid
**Item:** 4. Class 2 petroleums - Water-insoluble liquid
**Threshold:** 1000 L
**Danger category:** III
**Signal word:** Contact with sources of ignition prohibited

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

**F. Regulation according to other foreign laws**

**Safety, health and environmental regulations specific for the product** : No known specific national and/or regional regulations applicable to this product (including its ingredients).

# Section 16. Other information

**A. References** : Korean Ministry of Environment; Chemical Control Act
Korean Ministry of Labor; Industrial Safety and Health Act
NIER Notice
Registry of Toxic Effects of Chemical Substances (RTECS)
U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information Retrieval) ECOTOX Database System.

**B. First issue date** : 10/18/2022

**C. Date of issue/Date of revision** : **11/13/2026**

**D. Version** : **3.02**

**Prepared by** : EHS

**E. Other**

**Indicates information that has changed from previously issued version.**

**Disclaimer**

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