SAFETY DATA SHEET



Date of issue 5/18/2021 (month/day/year)

Version 16

Section 1. Chemical product and company identification

A. Product name : ABC 3 AF RED Product code : 00281558

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

: Antifouling products

Uses advised against: Product is not intended, labelled or packaged for consumer use.

C. Supplier's information : PPG SSC

(680-090)

19, Yeocheon-ro 217beon-gil, Nam-gu,

Ulsan, Korea

Tel: +82-52-210-8222

Email Address Korea.MSDS@PPG.COM

Emergency telephone

number:

: +82-52-210-8222

Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 3

ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (inhalation) - Category 2
SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1

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 :







Signal word : Danger

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Section 2. Hazards identification

Hazard statements : H226 - Flammable liquid and vapor.

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H330 - Fatal if inhaled.

H336 - May cause drowsiness or dizziness.

H351 - Suspected of causing cancer.

H373 - May cause damage to organs through prolonged or repeated exposure.

(central nervous system (CNS), kidneys, liver)

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

: P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing and eye or face protection.

P284 - In case of inadequate ventilation wear respiratory 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.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

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

: P391 - Collect spillage.

P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P340, P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. P362 + P364 - Take off contaminated clothing and wash it before reuse.

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

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338, P310 - 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.

: F403 + P233 - Store in a well-ventilated place. Keep container tightly closed. **Storage**

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.

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Section 3. Composition/information on ingredients

| Chemical name | Common name | Identifiers | % |
|-------------------------------------|-------------------------------------|----------------|----------|
| dícopper oxide | DICOPPER OXIDE / COPPER (I) OXIDE | CAS: 1317-39-1 | 30 - <40 |
| zinc oxide | ZINC OXIDE | CAS: 1314-13-2 | 10 -<20 |
| butan-1-ol | 1-BUTANOL | CAS: 71-36-3 | 5 - <10 |
| rosin | Rosin | CAS: 8050-09-7 | 5 - <10 |
| Xylene | XYLENES | CAS: 1330-20-7 | 5 - <10 |
| Ziram | ziram | CAS: 137-30-4 | 1 - <5 |
| diiron trioxide | Diiron trioxide | CAS: 1309-37-1 | 1 - <5 |
| N-ethyl-o(or p)-toluenesulphonamide | N-ethyl-o(or p)-toluenesulphonamide | CAS: 8047-99-2 | 1 - <5 |
| ethylbenzene | ETHYLBENZENE | CAS: 100-41-4 | 1 - <5 |
| copper oxide | COPPER OXIDE | CAS: 1317-38-0 | 1 - <5 |
| copper | COPPER | CAS: 7440-50-8 | 0.1 - <1 |
| ethanol | ETHYL ALCOHOL | CAS: 64-17-5 | 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 a | id measures |
|---------------------------|---|
| A. 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. |
| 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. |
| Protection of first-aider | S : 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)

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Section 5. Fire-fighting measures

A. Extinguishing media

Product code 00281558

Suitable extinguishing

media

Unsuitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

: 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 very 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 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 or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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. Collect spillage.

C. Methods and materials for containment and cleaning up

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.

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Section 6. Accidental release measures

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 noncombustible, 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). 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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Refer to special instructions/safety data sheet. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.

- 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.

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Section 8. Exposure controls/personal protection

A. Occupational exposure limits

| Ingredient name | Exposure limits |
|-----------------|---|
| dicopper oxide | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). TWA: 0.1 mg/m³ 8 hours. Form: Fume |
| zinc oxide | Ministry of Employment and Labor |
| ZITIC OXIGE | (Republic of Korea, 1/2020). |
| | TWA: 2 mg/m³ 8 hours. Form: Respirable |
| | dust |
| | STEL: 10 mg/m³ 15 minutes. |
| | TWA: 5 mg/m³ 8 hours. |
| butan-1-ol | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). Absorbed |
| | through skin. |
| | TWA: 20 ppm 8 hours. |
| rosin | ACGIH TLV (United States, 3/2020). Skin |
| | sensitizer. Inhalation sensitizer. |
| Xylene | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). |
| | STEL: 150 ppm 15 minutes. |
| diiron trioxide | TWA: 100 ppm 8 hours. Ministry of Employment and Labor |
| diron trioxide | (Republic of Korea, 1/2020). |
| | TWA: 5 mg/m³, (as Fe) 8 hours. Form: |
| | Fume |
| | TWA: 5 mg/m³, (as Fe) 8 hours. |
| ethylbenzene | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). |
| | STEL: 125 ppm 15 minutes. |
| | TWA: 100 ppm 8 hours. |
| copper oxide | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). |
| | TWA: 0.1 mg/m ³ 8 hours. Form: Fume |
| copper | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). |
| | TWA: 0.1 mg/m³ 8 hours. Form: Fume |
| ethanol | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). |
| | TWA: 1000 ppm 8 hours. |

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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.

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Section 8. Exposure controls/personal protection

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 Hand protection

: Chemical splash goggles and face shield.

: 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

A. Appearance

Physical state : Liquid.

Color : Red.

B. Odor : Aromatic.

C. Odor threshold : Not available.

D. pH : Mot applicable.

E. Melting/freezing point : Not available.

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

range

G. Flash point : Closed cup: 27°C (80.6°F)

H. Evaporation rate : Not available.I. Flammability (solid, gas) : Not available.

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explosive (flammable)

Section 9. Physical and chemical properties

J. Lower and upper : Greatest known range: Lower: 1.4% Upper: 11.3% (butan-1-ol)

limits

K. Vapor pressure : Not available.

L. Solubility : Insoluble in the following materials: cold water.

Solubility in water : Not available.

M. Vapor density : Not available.

N. Relative density : 1.95

O. Partition coefficient: n- :

octanol/water

: Not applicable.

P. Auto-ignition : Not temperature

Decompositi

: Not available.

Q. Decomposition temperature

: Not available.

R. Viscosity : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

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 : Depending on conditions, decomposition products may include the following

decomposition products materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

Section 11. Toxicological information

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

Potential acute health effects

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

drowsiness or dizziness.

Ingestion: Harmful if swallowed. 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 damage.

Over-exposure signs/symptoms

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Section 11. Toxicological information

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Ingestion : Adverse symptoms may include the following:

stomach pains

Skin contact : Adverse symptoms may include the following:

pain or irritation

redness dryness cracking

blistering may occur

Eye contact: Adverse symptoms may include the following:

watering redness

B. Health hazards

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------------------|---------------------------------|----------------|-------------------------|-----------------|
| dicopper oxide | LC50 Inhalation Dusts and | Rat | 3.34 mg/l | 4 hours |
| | mists | | | |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 1340 mg/kg | - |
| zinc oxide | LC50 Inhalation Dusts and | Rat | >5700 mg/m ³ | 4 hours |
| | mists | | | |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| butan-1-ol | LC50 Inhalation Vapor | Rat | 24000 mg/m ³ | 4 hours |
| | LC50 Inhalation Vapor | Rat | 8000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 3400 mg/kg | - |
| | LD50 Oral | Rat | 790 mg/kg | - |
| rosin | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 7600 mg/kg | - |
| Xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| • | LD50 Oral | Rat | 4.3 g/kg | - |
| Ziram | LC50 Inhalation Dusts and | Rat | 81 mg/m³ | 4 hours |
| | mists | | Ŭ | |
| | LD50 Dermal | Rabbit | >2 g/kg | - |
| | LD50 Dermal | Rat | >6 g/kg | - |
| | LD50 Oral | Rat | 267 mg/kg | - |
| diiron trioxide | LC50 Inhalation Dusts and | Rat | >5 mg/l | 4 hours |
| | mists | | Ŭ. | |
| | LD50 Oral | Rat | 10 g/kg | - |
| N-ethyl-o(or p)-toluenesulphonamide | LD50 Oral | Rat | 2250 mg/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 | - |
| copper oxide | LD50 Oral | Rat | >2000 mg/kg | - |
| copper | LC50 Inhalation Dusts and mists | Rat | >5.11 mg/l | 4 hours |
| | | | | |

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Product code 00281558 Date of issue 5/18/2021 (month/day/year) Version 16 **Product name ABC 3 AF RED Section 11. Toxicological information** LC50 Inhalation Vapor Rat 124700 mg/m³ ethanol 4 hours 17100 mg/kg LD50 Dermal Rat LD50 Oral Rat 7 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

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 |
|-------------------------------------|----------------|-------------------|------------------------------|
| outan-1-ol | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| Xylene | Category 3 | - | Narcotic effects |
| Ziram | Category 3 | - | Respiratory tract irritation |
| N-ethyl-o(or p)-toluenesulphonamide | Category 3 | - | Narcotic effects |

Specific target organ toxicity (repeated exposure)

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Section 11. Toxicological information

| Name | Classification | Route of exposure | Target organs |
|--------|----------------|-------------------|--|
| Kylene | Category 1 | | central nervous system (CNS), kidneys, liver |
| Ziram | Category 2 | - | - |

Aspiration hazard

| Name | Result |
|--------------|--------------------------------|
| ethylbenzene | ASPIRATION HAZARD - Category 1 |

Potential chronic health effects

General: May cause 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 : Suspected of causing 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.

Additional information

Frolonged 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.

| Chemical name | Common name | CAS# | GHS Classification |
|----------------|--------------------------------------|-------------------|--|
| dicopper oxide | DICOPPER OXIDE / COPPER (I) OXIDE | CAS: 1317-39-1 | ACUTE TOXICITY (oral) - Category 4 |
| | | | ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE |
| | | | IRRITATION - Category 1 |
| | | | AQUATIC HAZARD (ACUTE) - Category 1 |
| | | | AQUATIC HAZARD (LONG-TERM) - Category 1 |
| zinc oxide | ZINC OXIDE | CAS: 1314-13-2 | AQUATIC HAZARD (ACUTE) - Category 1 |
| | | | AQUATIC HAZARD (LONG-TERM) - |
| | | | Category 1 |
| butan-1-ol | 1-BUTANOL | CAS: 71-36-3 | FLAMMABLE LIQUIDS - Category 3 |
| | | | ACUTE TOXICITY (oral) - Category 4 |
| | | | SKIN CORROSION/IRRITATION - |
| | | | Category 2 SERIOUS EYE DAMAGE/ EYE |
| | | | IRRITATION - Category 1 |
| | | | SPECIFIC TARGET ORGAN TOXICITY |
| | | | (SINGLE EXPOSURE) (Respiratory tract |

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Section 11. Toxicological information

| rosin Rosin Rosin CAS: 8050-09-7 Xylene XYLENES CAS: 1330-20-7 Xylene XYLENES CAS: 1330-20-7 AQUATIC HAZARD (LONG-TERM) - Category 4 FLAMMABLE LIQUIDS - Category 1 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 FLAMMABLE LI | 1 | | | |
|--|-----------------|-----------------|---|--|
| Rosin | | | | (SINGLE EXPOSURE) (Narcotic effects) - |
| Xylene Xylenes CAS: 1330-20-7 CAS: 1330-20-7 CAS: 1330-20-7 CAS: 1330-20-7 CACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ACUTE TOXICITY (inhalation) - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 ACUTE TOXICITY (Inhalation) - Category 1 ACUTE TOXICITY (Inhalation) - Category 4 CARCINOGENICITY - Category 1 ACUTE TOXICITY (Inhalation) - Category 1 ACUTE TOXICITY (In | rosin | Rosin | | |
| Xylene | | | | |
| ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ACUTE TOXICITY (inhalation) - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 Not classified. N-ethyl-o(or p)- toluenesulphonamide toluenesulphonamide ethylbenzene ETHYLBENZENE CAS: 1309-37-1 CAS: 8047-99-2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 1 Not classified. SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (Narcotic effects) - Category 1 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 | Xylene | XYLENES | | |
| SERIOUS EYE DAMAGE/ EYE RRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE/ EYE RRITATION - Category 1 ACUTE TOXICITY (inhalation) - Category 1 SERIOUS EXPOSURE) - Category 4 ACUTE TOXICITY (oral) - Category 1 SERIOUS EXPOSURE) - Category 4 ACUTE TOXICITY (oral) - Category 1 SERIOUS EXPOSURE) - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EXPOSURE) - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 | | | | ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - |
| Ziram ziram CAS: CAS: 137-30-4 Ziram ziram CAS: 137-30-4 CAS: 137-30-4 CAS: 137-30-4 CAS: 137-30-4 CAS: 137-30-4 CAS: 137-30-4 CACUTE TOXICITY (oral) - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 ACUTE TOXICITY (Inhalation) - Category 4 CARCINOGENICITY - Category 2 ACUTE TOXICITY (Inhalation) - Category 4 CARCINOGENICITY - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 | | | | SERIOUS EYE DAMAGE/ EYE |
| Ziram Ziram Ziram Ziram CAS: 137-30-4 ACUTE TOXICITY (REPEATED EXPOSURE) - Category 1 ACUTE TOXICITY (Inhalation) - Category 4 ACUTE TOXICITY (Inhalation) - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 Not classified. 1309-37-1 CAS: SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 1 Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 2 ACUTE TOXICITY (Inhalation) - Category 2 ACUTE TOXICITY (Inhalation) - Category 4 CARCINOGENICITY - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 | | | | (SINGLE EXPOSURE) (Narcotic effects) - |
| ACUTE TOXICITY (inhalation) - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 Not classified. N-ethyl-o(or p)- toluenesulphonamide Toluenesulphonamide Toluenesulphonamide ETHYLBENZENE CAS: 100-41-4 CAS: 1100-41-4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 | | | | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 Not classified. N-ethyl-o(or p)- toluenesulphonamide N-ethyl-o(or p)- toluenesulphonamide ETHYLBENZENE CAS: ethylbenzene ETHYLBENZENE CAS: copper oxide CAS: 1309-37-1 CAS: SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 | Ziram | ziram | | ACUTE TOXICITY (oral) - Category 4 |
| ritiation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 Not classified. N-ethyl-o(or p)- toluenesulphonamide N-ethyl-o(or p)- toluenesulphonamide ETHYLBENZENE CAS: COPPER OXIDE CAS: CAS: CAS: CAS: CAS: CAS: CAS: CAS | | | | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 |
| diiron trioxide Diiron trioxide CAS: 1309-37-1 N-ethyl-o(or p)- toluenesulphonamide ethylbenzene ETHYLBENZENE CAS: SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 COPPER OXIDE CAS: AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 CAS: AQUATIC HAZARD (ACUTE) - Category 1 | | | | rritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - |
| toluenesulphonamide ethylbenzene ETHYLBENZENE CAS: 100-41-4 COPPER OXIDE COPPER CAS: 7440-50-8 CSINGLE EXPOSURE) (Narcotic effects) - Category 3 CAS: 100-41-4 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 | diiron trioxide | Diiron trioxide | _ | |
| ethylbenzene ETHYLBENZENE CAS: 100-41-4 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 COPPER OXIDE CAS: 1317-38-0 AQUATIC HAZARD (LONG-TERM) - Category 1 COPPER CAS: 7440-50-8 | , | | | (SINGLE EXPOSURE) (Narcotic effects) - |
| CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 COPPER OXIDE CAS: AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 COPPER CAS: AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 | ethylbenzene | ETHYLBENZENE | _ | |
| copper COPPER CAS: 7440-50-8 AQUATIC HAZARD (ACUTE) - Category 1 | | | | CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 |
| copper CAS: AQUATIC HAZARD (ACUTE) - Category 1 7440-50-8 | copper oxide | COPPER OXIDE | | , , , , , , |
| | copper | COPPER | | Category 1 |
| Category 3 | | | | AQUATIC HAZARD (LONG-TERM) - |
| ethanol ETHYL ALCOHOL CAS: FLAMMABLE LIQUIDS - Category 2 | ethanol | ETHYL ALCOHOL | | |
| SERIOUS EYE DAMAGE/ EYE | | | | SERIOUS EYE DAMAGE/ EYE |

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|---------------------------------------|---|------------|--|--|
| Product name ABC 3 AF RED | | | | |
| Section 11. Toxicological information | | | | |
| | IRRITATION - Category 2 CARCINOGENICITY - Category 2 | | | |

Section 12. Ecological information

A. **Ecotoxicity**

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|-------------------------------------|----------------------------|----------|
| dicopper oxide | LC50 0.003 mg/l | Fish | 96 hours |
| zinc oxide | Acute EC50 0.17 mg/l | Algae | 72 hours |
| | Acute EC50 0.481 mg/l Fresh water | Daphnia - Daphnia magna - | 48 hours |
| | _ | Neonate | |
| | Chronic NOEC 0.017 mg/l Fresh water | Algae | 72 hours |
| butan-1-ol | Acute LC50 1376 mg/l | Fish | 96 hours |
| Ziram | Acute EC50 5.421 µg/l Marine water | Algae - Nitzschia pungens | 96 hours |
| | Chronic NOEC 0.265 µg/l Marine | Algae - Nitzschia pungens | 96 hours |
| | water | | |
| diiron trioxide | Acute EC50 >100 mg/l | Daphnia | 48 hours |
| N-ethyl-o(or p)- | EC50 >1000 mg/l | Daphnia - Daphnia magna | 48 hours |
| toluenesulphonamide | | | |
| | LC50 130 mg/l | Fish - Lepomis macrochirus | 96 hours |
| ethylbenzene | Acute LC50 150 to 200 mg/l Fresh | Fish | 96 hours |
| | water | | |
| copper | Acute LC50 810 ppb | Fish | 96 hours |
| ethanol | Acute EC50 7640 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |

B. Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| Xylene | - | - | Readily |
| ethylbenzene | - | - | Readily |
| ethanol | - | - | Readily |

C. Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|------------|-------------|-----------|
| b utan-1-ol | 1 | - | low |
| rosin | 1.9 to 7.7 | - | high |
| Xylene | 3.12 | 7.4 to 18.5 | low |
| Ziram | 1.65 | - | low |
| N-ethyl-o(or p)- | 1.87 | - | low |
| toluenesulphonamide | | | |
| ethylbenzene | 3.6 | 79.43 | low |
| ethanol | -0.35 | - | low |

D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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

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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 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 | Yes. The environmentally hazardous substance mark is not required. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| E. Marine pollutant substances | Not applicable. | (dicopper oxide, zinc oxide) | 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.

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

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: Not applicable.

to IMO instruments

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Section 15. Regulatory information

A. Regulation according to ISHA

ISHA article 117 (Harmful substances prohibited from manufacture)

: None of the components are listed.

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

Article 2 of Youth Protection Act on Substances Hazardous

: It is not allowed to sell to persons under the age of 19.

to Youth

Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:

dicopper oxide zinc oxide butan-1-ol rosin Xvlene diiron trioxide ethylbenzene copper oxide copper

ethanol

: None of the components are listed. ISHA Enforcement Regs

Annex 19 (Exposure standards established for harmful factors)

ISHA Enforcement Regs Annex 11-5 (Harmful factors subject to Work

Environment Measurement)

up)

ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check-

Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)

: The following components are listed: zinc oxide, n-butanol, xylene, iron oxide, ethyl benzene

The following components are listed: Copper (dust, mist, fume), Zinc oxide, n-Butanol, Xylene, Iron oxide (dust, fume), Ethyl benzene

: The following components are listed: copper and its compounds, zinc and its compounds, n-butanol, xylene, zinc and its compounds, iron and its compounds, ethyl benzene, copper and its compounds

B. Regulation according to Chemicals Control Act

CCA Article 11 (TRI)

: The following components are listed: Copper and its compounds, Zinc and its compounds, Xylene including o-,m-,p- isomer, Ziram, Ethylbenzene, Copper and its compounds

CCA Article 18 Prohibited (K-Reach Article 27)

: None of the components are listed.

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Section 15. Regulatory information

CCA Article 19 Subject to authorization (K-

: None of the components are listed.

Reach Article 25)

CCA Article 20

Restricted (K-Reach

Article 27)

: None of the components are listed.

CCA Article 20 Toxic

Chemicals (K-Reach Article 20)

: Toxic

Korea inventory CCA Article 39

(Accident Precaution Chemicals)

C. Dangerous Materials **Safety Management Act** : All components are listed or exempted. : None of the components are listed.

: 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

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

E. 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

: Korean Ministry of Environment; Chemical Control Act A. References

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. Date of issue/Date of

revision

: 5/18/2021

C. Version : 16 **Prepared by** : EHS

D. Other

✓ Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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