# SAFETY DATA SHEET

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

1.1 Product identifier

Product name : MACROPOXY C425V2 Epoxy Zinc Phosphate - Base

**Product code** : C425V2B

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

**Material uses** : Paint or paint related material.

: Industrial use only.

# 1.3 Details of the supplier of the safety data sheet

Sherwin-Williams UK Limited - Protective & Marine

Coatings Division EMEAI

Tower Works
Kestor Street
Bolton
BL2 2AL

United Kingdom +44 (0) 1204 521771

The Sherwin-Williams Company Inver France SAS 2 Rue Jean Revaus - BP 80088 - 79102 Thouars CEDEX

France

e-mail address of person responsible for this SDS

: hse.pm.emea@sherwin.com

#### 1.4 Emergency telephone number

#### National advisory body/Poison Center

**Telephone number**: 112 - Information center (available 24 hours)

**Supplier** 

**Telephone number** : +(44)-870-8200 418

**Hours of operation**: Emergency contact available 24 hours a day

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Date of issue/Date of revision : 15, Apr. 2024 Date of previous issue : 26, Mar. 2024 Version : 6 1/31

MACROPOXY C425V2 Epoxy Zinc Phosphate - Base

C425V2B

#### SECTION 2: Hazards identification

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms









Signal word : Danger

**Hazard statements**: Flammable liquid and vapor.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

Prevention: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot

surfaces, sparks, open flames and other ignition sources. No smoking. Avoid

release to the environment. Do not breathe vapor.

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

Storage: Not applicable.Disposal: Not applicable.Hazardous ingredients: Epoxy Polymer

Xylene, mixed isomers

Supplemental label

elements

: Contains epoxy constituents. May produce an allergic reaction. FOR INDUSTRIAL

**USE ONLY** 

#### Special packaging requirements

Not applicable.

#### 2.3 Other hazards

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

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of

0.1% or higher.

Other hazards which do not result in classification

: None known.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixture

| Product/ingredient name | Identifiers   | %         | Classification  | Specific Conc.<br>Limits, M-factors<br>and ATEs                 | Туре |
|-------------------------|---|-----------|---|---|------|
| Epoxy Polymer           | EC: 500-033-5<br>CAS: 25068-38-6<br>Index: 603-074-00-8 | ≥25 - ≤50 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 | Skin Irrit. 2, H315:<br>C ≥ 5%<br>Eye Irrit. 2, H319:<br>C ≥ 5% | [1]  |
| Zinc Phosphate          | EC: 231-944-3<br>CAS: 7779-90-0<br>Index: 030-011-00-6  | ≥10 - ≤24 | Aquatic Acute 1, H400<br>Aquatic Chronic 1,<br>H410                               | M [Acute] = 1<br>M [Chronic] = 1                                | [1]  |

Date of issue/Date of revision : 15, Apr., 2024 Date of previous issue : 26, Mar., 2024 Version : 6 2/31

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II
MACROPOXY C425V2 Epoxy Zinc Phosphate - Base

C425V2B

#### **SECTION 3: Composition/information on ingredients**

| •                     |                     | J         |                        |                     |         |
|-----------------------|---------------------|-----------|------------------------|---------------------|---------|
| Xylene, mixed isomers | REACH #:            | ≥10 - <20 | Flam. Liq. 3, H226     | ATE [Dermal] =      | [1] [2] |
|                       | 01-2119488216-32    |           | Acute Tox. 4, H312     | 1100 mg/kg          |         |
|                       | EC: 215-535-7       |           | Acute Tox. 4, H332     | ATE [Inhalation     |         |
|                       | CAS: 1330-20-7      |           | Skin Irrit. 2, H315    | (gases)] = 6700     |         |
|                       | Index: 601-022-00-9 |           | Eye Irrit. 2, H319     | ppm                 |         |
|                       |                     |           | STOT SE 3, H335        |                     |         |
|                       |                     |           | STOT RE 2, H373        |                     |         |
|                       |                     |           | Asp. Tox. 1, H304      |                     |         |
| Ethylbenzene          | REACH #:            | ≤3        | Flam. Liq. 2, H225     | ATE [Inhalation     | [1] [2] |
|                       | 01-2119489370-35    |           | Acute Tox. 4, H332     | (vapours)] = 11 mg/ |         |
|                       | EC: 202-849-4       |           | STOT RE 2, H373        | ĺ                   |         |
|                       | CAS: 100-41-4       |           | (hearing organs)       |                     |         |
|                       | Index: 601-023-00-4 |           | Asp. Tox. 1, H304      |                     |         |
|                       |                     |           | Aquatic Chronic 3,     |                     |         |
|                       |                     |           | H412                   |                     |         |
| Zinc Oxide            | REACH #:            | ≤0.75     | Aquatic Acute 1, H400  | M [Acute] = 1       | [1]     |
|                       | 01-2119463881-32    |           | Aquatic Chronic 1,     | M [Chronic] = 1     |         |
|                       | EC: 215-222-5       |           | H410                   |                     |         |
|                       | CAS: 1314-13-2      |           |                        |                     |         |
|                       | Index: 030-013-00-7 |           |                        |                     |         |
|                       |                     |           | See Section 16 for     |                     |         |
|                       |                     |           | the full text of the H |                     |         |
|                       |                     |           | statements declared    |                     |         |
|                       |                     |           | above.                 |                     |         |
|                       |                     |           |                        |                     |         |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### **Type**

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

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

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give

anything by mouth to an unconscious person. If unconscious, place in recovery

position and seek medical advice.

**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.

**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.

If swallowed, seek medical advice immediately and show this container or label.

Keep person warm and at rest. Do NOT induce vomiting.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Wash contaminated clothing thoroughly with water before removing it, or wear

gloves.

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

Date of issue/Date of revision: 15, Apr, 2024Date of previous issue: 26, Mar, 2024Version: 63/31

MACROPOXY C425V2 Epoxy Zinc Phosphate - Base

C425V2B

#### **SECTION 4: First aid measures**

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitizer and an irritant. It contains low-molecular weight epoxy constituents which are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the mixture and exposure to spray, mist and vapors should be avoided.

Contains reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). May produce an allergic reaction.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

See toxicological information (Section 11)

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Recommended: alcohol-resistant foam, CO2, powders, water spray or mist.

Unsuitable extinguishing

media

: Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous combustion

products

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

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters

: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Date of issue/Date of revision : 15, Apr. 2024 Date of previous issue : 26, Mar, 2024 Version : 6 4/31

MACROPOXY C425V2 Epoxy Zinc Phosphate - Base

C425V2B

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.

Keep unnecessary and unprotected personnel from entering.

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".

6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes. rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and materials for containment and cleaning up

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

: Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws. Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapors in all cases. In such circumstances, they should wear a compressed-air-fed respirator during the spraying process and until the particulate and solvent vapor concentrations have fallen below the exposure limits.

Date of issue/Date of revision : 15, Apr, 2024 Date of previous issue : 26, Mar, 2024 Version: 6 5/31

MACROPOXY C425V2 Epoxy Zinc Phosphate - Base

C425V2B

#### **SECTION 7: Handling and storage**

# 7.2 Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations.

#### Notes on joint storage

Keep away from: oxidizing agents, strong alkalis, strong acids.

#### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Contaminated absorbent material may pose the same hazard as the spilled product.

Store in closed original container at temperatures between 5°C and 25°C.

#### 7.3 Specific end use(s)

solutions

Recommendations : Industrial sector specific :

Not available.Not available.

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations.

#### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name | Exposure limit values   |
|-------------------------|---|
| Xylene, mixed isomers   | Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021). [xylene (mixture of isomers)] Absorbed through skin.  TWA: 221 mg/m³ 8 hours.  TWA: 50 ppm 8 hours.  KTV: 442 mg/m³, 4 times per shift, 15 minutes.  KTV: 100 ppm, 4 times per shift, 15 minutes. |
| Ethylbenzene            | Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021).  Absorbed through skin.  TWA: 442 mg/m³ 8 hours.  TWA: 100 ppm 8 hours.  KTV: 884 mg/m³, 4 times per shift, 15 minutes.  KTV: 200 ppm, 4 times per shift, 15 minutes.                             |

#### **Biological exposure indices**

| Product/ingredient name | Exposure indices   |  |  |
|-------------------------|--|--|--|
| xylene                  | Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021) [xylene (all isomers)] BAT: 2 g/l, methylhippuric acid (all isomers) [in urine]. Sampling time: at the end of the work shift. |  |  |
| ethylbenzene            | Regulation on protection of workers from the risks related to exposure to chemical substances at work (Slovenia, 5/2021)  BAT: 250 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of the work shift.    |  |  |

Date of issue/Date of revision: 15, Apr, 2024Date of previous issue: 26, Mar, 2024Version: 6

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II
MACROPOXY C425V2 Epoxy Zinc Phosphate - Base
C425V2B

#### SECTION 8: Exposure controls/personal protection

# Recommended monitoring procedures

- : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- : Regular monitoring of all work areas should be carried out at all times, including areas that may not be equally ventilated.

#### **DNELs/DMELs**

| Product/ingredient name | Туре | Exposure                 | Value                 | Population            | Effects  |
|-------------------------|------|--------------------------|-----------------------|-----------------------|----------|
| Xylene, mixed isomers   | DNEL | Long term Dermal         | 212 mg/m <sup>3</sup> | Workers               | Systemic |
|                         | DNEL | Long term Dermal         | 125 mg/kg             | General population    | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 221 mg/m³             | Workers               | Systemic |
|                         | DNEL | Short term<br>Inhalation | 289 mg/m <sup>3</sup> | Workers               | Systemic |
|                         | DNEL | Short term<br>Inhalation | 442 mg/m³             | Workers               | Local    |
|                         | DNEL | Long term<br>Inhalation  | 65.3 mg/m³            | General population    | Systemic |
|                         | DNEL | Short term<br>Inhalation | 260 mg/m <sup>3</sup> | General population    | Local    |
|                         | DNEL | Short term<br>Inhalation | 174 mg/m³             | General population    | Systemic |
|                         | DNEL | Long term Oral           | 1.5 mg/kg             | General<br>population | Systemic |
| Zinc Oxide              | DNEL | Long term<br>Inhalation  | 5 mg/m³               | Workers               | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 0.5 mg/m³             | Workers               | Local    |
|                         | DNEL | Long term Dermal         | 83 mg/kg<br>bw/day    | Workers               | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 2.5 mg/m <sup>3</sup> | General population    | Systemic |
|                         | DNEL | Long term Dermal         | 83 mg/kg<br>bw/day    | General population    | Systemic |
|                         | DNEL | Long term Oral           | 0.83 mg/<br>kg bw/day | General<br>population | Systemic |

#### **PNECs**

| Product/ingredient name | Compartment Detail            | Value                      | Method Detail |
|-------------------------|-------------------------------|----------------------------|---------------|
|                         |                               | 0.0206 mg/l<br>0.0061 mg/l | -             |
|                         | Sewage Treatment              | 0.1 mg/l                   | -             |
|                         | Plant<br>Fresh water sediment | 117.8 mg/kg dwt            | -             |
|                         | Marine water sediment         | 56.5 mg/kg dwt             | -             |
|                         | Marine water sediment         |                            | -<br>-<br>-   |

#### 8.2 Exposure controls

Date of issue/Date of revision: 15, Apr, 2024Date of previous issue: 26, Mar, 2024Version: 67/31

MACROPOXY C425V2 Epoxy Zinc Phosphate - Base

C425V2B

#### **SECTION 8: Exposure controls/personal protection**

# Appropriate engineering controls

- : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.
- : Users are advised to consider national Occupational Exposure Limits or other equivalent values.

#### **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/face protection Skin protection

: Use safety eyewear designed to protect against splash of liquids.

Hand protection

: Wear suitable gloves tested to EN374.

Gloves

: Gloves for short term exposure/splash protection (less than 10 min.): Nitrile>0.12 mm

Gloves for splash protection need to be changed immediately when in contact with chemicals.

Gloves for repeated or prolonged exposure (breakthrough time > 240 min.) When the hazardous ingredients in Section 3 contain any of the following: Aromatic solvents (Xylene, Toluene) or Aliphatic solvents or Mineral Oil use: Polyvinyl alcohol (PVA) gloves 0.2-0.3 mm

Otherwise use: Butyl gloves >0.3 mm

For long term exposure or spills (breakthrough time >480 min.): Use PE laminated gloves as under gloves

Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing.

The recommendation for the type or types of glove to use when handling this product is based on information from the following source: Solvent resin manufacturers and European Solvents Industry Group (ESIG)

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

#### **Body protection**

- : Personnel should wear antistatic clothing made of natural fibers or of hightemperature-resistant synthetic fibers.
- 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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

Date of issue/Date of revision: 15, Apr, 2024Date of previous issue: 26, Mar, 2024Version: 68/31

MACROPOXY C425V2 Epoxy Zinc Phosphate - Base

C425V2B

#### **SECTION 8: Exposure controls/personal protection**

Other skin protection Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Use a properly fitted, particulate filter respirator complying with an approved Respiratory protection

standard if a risk assessment indicates this is necessary. Recommended: A2P2 (EN14387). 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.

Environmental exposure

controls

: Do not allow to enter drains or watercourses.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

#### SECTION 9: Physical and chemical properties

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

#### 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state : Liquid. Color : Orange. Odor : Paint

Odor threshold : Not Available (Not Tested).

: Not relevant/applicable due to nature of the product.

insoluble in water.

Melting point/freezing point

Initial boiling point and

boiling range Flash point

: 136°C

: 0.8 (butyl acetate = 1) Evaporation rate : Flammable liquid. **Flammability** 

Lower and upper explosion

limit

LEL: 1% (Xylene, mixed isomers) UEL: 7% (Xylene, mixed isomers)

: 0.95 kPa (7.1 mm Hg) Vapor pressure

Relative vapor density : 3.66 [Air = 1]

Relative density : 1.65

Solubility(ies)

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

water

**Partition coefficient: n-octanol/**: Not relevant/applicable due to nature of the product.

: Not relevant/applicable due to nature of the product.

: Closed cup: 24°C [Pensky-Martens Closed Cup]

Auto-ignition temperature : Not relevant/applicable due to nature of the product. Decomposition temperature : Not relevant/applicable due to nature of the product.

Viscosity : Kinematic (40°C): <20.5 mm<sup>2</sup>/s

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

Particle characteristics

Median particle size : Not relevant/applicable due to nature of the product.

Date of issue/Date of revision : 15, Apr, 2024 Date of previous issue : 26, Mar, 2024 Version: 6 9/31

MACROPOXY C425V2 Epoxy Zinc Phosphate - Base

C425V2B

#### **SECTION 9: Physical and chemical properties**

9.2 Other information

**Heat of combustion** : 4.607 kJ/g

#### **SECTION 10: Stability and reactivity**

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

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

10.3 Possibility of hazardous reactions

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

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

products.

10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

: Decomposition products may include the following materials: carbon monoxide,

carbon dioxide, smoke, oxides of nitrogen.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitizer and an irritant. It contains low-molecular weight epoxy constituents which are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the mixture and exposure to spray, mist and vapors should be avoided.

Contains reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700). May produce an allergic reaction.

#### **Acute toxicity**

Date of issue/Date of revision : 15, Apr, 2024 Date of previous issue : 26, Mar, 2024 Version : 6 10/31

MACROPOXY C425V2 Epoxy Zinc Phosphate - Base

C425V2B

### **SECTION 11: Toxicological information**

| Product/ingredient name | Result               | Species | Dose        | Exposure |
|-------------------------|----------------------|---------|-------------|----------|
| Xylene, mixed isomers   | LC50 Inhalation Gas. | Rat     | 6700 ppm    | 4 hours  |
|                         | LD50 Oral            | Rat     | 4300 mg/kg  | -        |
| Ethylbenzene            | LD50 Dermal          | Rabbit  | >5000 mg/kg | -        |
|                         | LD50 Oral            | Rat     | 3500 mg/kg  | -        |

#### **Acute toxicity estimates**

| Route   | ATE value                                    |  |
|---|--|--|
| Dermal Inhalation (gases) Inhalation (vapors) | 8444.76 mg/kg<br>51436.27 ppm<br>477.24 mg/l |  |

#### **Irritation/Corrosion**

| Product/ingredient name | Result                   | Species | Score | Exposure           | Observation |
|-------------------------|--------------------------|---------|-------|--------------------|-------------|
| Epoxy Polymer           | Eyes - Mild irritant     | Rabbit  | -     | 100 mg             | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500<br>uL | -           |
|                         | Skin - Severe irritant   | Rabbit  | -     | 24 hours 2<br>mg   | -           |
| Xylene, mixed isomers   | Eyes - Mild irritant     | Rabbit  | -     | 87 mg              | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 5<br>mg   | -           |
|                         | Skin - Mild irritant     | Rat     | -     | 8 hours 60 uL      | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 100 %              | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500<br>mg | -           |
| Ethylbenzene            | Eyes - Severe irritant   | Rabbit  | -     | 500 mg             | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 15<br>mg  | -           |
| Zinc Oxide              | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 500<br>mg | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500<br>mg | -           |

Conclusion/Summary

: Not available.

**Sensitization** 

No data available

Conclusion/Summary

: Not available.

**Mutagenicity** 

No data available

**Carcinogenicity** 

No data available

**Reproductive toxicity** 

No data available

**Teratogenicity** 

No data available

Specific target organ toxicity (single exposure)

Date of issue/Date of revision: 15, Apr, 2024Date of previous issue: 26, Mar, 2024Version: 611/31

MACROPOXY C425V2 Epoxy Zinc Phosphate - Base

C425V2B

#### **SECTION 11: Toxicological information**

| Product/ingredient name | Category   | Route of exposure | Target organs                |
|-------------------------|------------|-------------------|------------------------------|
| Xylene, mixed isomers   | Category 3 | -                 | Respiratory tract irritation |

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

| Product/ingredient name | Category   | Route of exposure | Target organs  |
|-------------------------|------------|-------------------|----------------|
| Xylene, mixed isomers   | Category 2 | -                 | -              |
| Ethylbenzene            | Category 2 |                   | hearing organs |

#### **Aspiration hazard**

| Product/ingredient name            | Result  |  |
|------------------------------------|---|--|
| Xylene, mixed isomers Ethylbenzene | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |  |

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

| Product/ingredient name | Result                            | Species                                    | Exposure |
|-------------------------|-----------------------------------|--|----------|
| Zinc Phosphate          | Acute LC50 90 μg/l Fresh water    | Fish - Oncorhynchus mykiss                 | 96 hours |
| Xylene, mixed isomers   | Acute LC50 8500 μg/l Marine water | Crustaceans - Palaemonetes pugio           | 48 hours |
|                         | Acute LC50 13400 μg/l Fresh water | Fish - Pimephales promelas                 | 96 hours |
| Ethylbenzene            | Acute EC50 4900 µg/l Marine water | Algae - Skeletonema costatum               | 72 hours |
| _                       | Acute EC50 7700 µg/l Marine water | Algae - Skeletonema costatum               | 96 hours |
|                         | Acute EC50 6.53 mg/l Marine water | Crustaceans - <i>Artemia sp.</i> - Nauplii | 48 hours |
|                         | Acute EC50 2.93 mg/l Fresh water  | Daphnia - <i>Daphnia magna</i> - Neonate   | 48 hours |
|                         | Acute LC50 4200 µg/l Fresh water  | Fish - Oncorhynchus mykiss                 | 96 hours |
| Zinc Oxide              | Acute IC50 1.85 mg/l Marine water | Algae - Skeletonema costatum               | 96 hours |
|                         | Acute LC50 98 μg/l Fresh water    | Daphnia - <i>Daphnia magna</i> - Neonate   | 48 hours |
|                         | Acute LC50 1.1 ppm Fresh water    | Fish - Oncorhynchus mykiss                 | 96 hours |

#### 12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|-------------------------|------|--------|------|----------|
| No data available       |      |        |      |          |

**Conclusion/Summary**: Not available.

Date of issue/Date of revision: 15, Apr, 2024Date of previous issue: 26, Mar, 2024Version: 612/31

MACROPOXY C425V2 Epoxy Zinc Phosphate - Base

C425V2B

#### **SECTION 12: Ecological information**

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| Xylene, mixed isomers   | -                 | -          | Readily          |
| Ethylbenzene            | -                 | -          | Readily          |

#### 12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF         | Potential |
|-------------------------|--------|-------------|-----------|
| Epoxy Polymer           | -      | 31          | Low       |
| Zinc Phosphate          | -      | 60960       | High      |
| Xylene, mixed isomers   | -      | 8.1 to 25.9 | Low       |
| Zinc Oxide              | -      | 28960       | High      |

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

*Mobility* : Not available.

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

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.

Hazardous waste

: Yes.

European waste catalogue (EWC)

: waste paint and varnish containing organic solvents or other hazardous substances

08 01 11\*

Disposal considerations

: Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no

longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

**Packaging** 

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered

when recycling is not feasible.

Disposal considerations

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

Date of issue/Date of revision : 15, Apr. 2024 Date of previous issue : 26, Mar, 2024 Version : 6 13/31

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II MACROPOXY C425V2 Epoxy Zinc Phosphate - Base

C425V2B

#### **SECTION 13: Disposal considerations**

European waste catalogue (EWC)

- : packaging containing residues of or contaminated by hazardous substances 15 01 10\*
- Special precautions
- This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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**

|   | ADR/RID   | IMDG  | IATA   |
|---|---|---|--|
| 14.1 UN number or ID number                     | UN1263  | UN1263  | UN1263   |
| 14.2 UN proper shipping name                    | PAINT   | PAINT. Marine pollutant<br>(Epoxy Polymer, Zinc<br>Phosphate)   | PAINT  |
| 14.3 Transport<br>Hazard Class(es)/<br>Label(s) | 3   | 3   | 3  |
| 14.4 Packing group                              | III   | III   | III  |
| 14.5<br>Environmental<br>hazards                | Yes.  | Yes.  | Yes. The environmentally hazardous substance mark is not required.                                       |
| Additional information                          | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Tunnel code</u> D/E | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Emergency schedules F-E, S-E | The environmentally hazardous substance mark may appear if required by other transportation regulations. |

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments

: Not applicable.

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Date of issue/Date of revision : 15, Apr, 2024 Date of previous issue : 26, Mar, 2024 Version: 6 14/31

MACROPOXY C425V2 Epoxy Zinc Phosphate - Base

C425V2B

#### **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorization

#### **Annex XIV**

None of the components are listed.

# <u>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</u>

| Product/ingredient name                      | %     | Designation [Usage] |
|--|-------|---------------------|
| MACROPOXY C425V2 Epoxy Zinc Phosphate - Base | ≥90   | 3                   |
| toluene                                      | ≤0.1  | 48                  |
| 4,4'-isopropylidenediphenol                  | <0.01 | 66                  |

Labeling : Not applicable.

**Other EU regulations** 

VOC content (2010/75/EU) : 15.3 w/w

253 g/l

**Explosive precursors**: Not applicable.

**Seveso Directive** 

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on

major accident hazards.

**National regulations** 

15.2 Chemical Safety

: No Chemical Safety Assessment has been carried out.

Assessment

#### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

N/A = Not available

Key literature references and sources for data

: Regulation (EC) No. 1272/2008 [CLP]

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road

IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by

Commission Regulation (EU) 2020/878

Directive 2012/18/EU, and relative amendments & additions Directive 2008/98/EC, and relative amendments & additions Directive 2009/161/EU, and relative amendments & additions

**CEPE** Guidelines

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Date of issue/Date of revision: 15, Apr, 2024Date of previous issue: 26, Mar, 2024Version: 615/31

MACROPOXY C425V2 Epoxy Zinc Phosphate - Base

C425V2B

#### **SECTION 16: Other information**

| Classification          | Justification         |  |
|-------------------------|-----------------------|--|
| Flam. Liq. 3, H226      | On basis of test data |  |
| Skin Irrit. 2, H315     | Calculation method    |  |
| Eye Irrit. 2, H319      | Calculation method    |  |
| Skin Sens. 1, H317      | Calculation method    |  |
| STOT RE 2, H373         | Calculation method    |  |
| Asp. Tox. 1, H304       | Calculation method    |  |
| Aquatic Chronic 2, H411 | Calculation method    |  |

Full text of abbreviated H

statements

H225 Highly flammable liquid and vapor.H226 Flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.
H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated

exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

: Acute Tox. 4

ACUTE TOXICITY - Category 4

Aquatic Acute 1 AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1 AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2 AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3 AQUATIC HAZARD (LONG-TERM) - Category 3

Asp. Tox. 1 ASPIRATION HAZARD - Category 1

Eye Irrit. 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3

Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1 SKIN SENSITIZATION - Category 1

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) - Category 2

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE

EXPOSURE) - Category 3

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Date of previous issue : 26, Mar, 2024

: If there is no previous validation date please contact your supplier for more

information.

Version : 6

#### Notice to reader

In accordance with Regulation (EC) 1907/2006, REACH Regulation, Articles 31, 37, any required hazard-related information on the use of substances received as downstream user will be sent forward. Consequently, the safety data sheets for some products will contain a SUMI - Safe Use of Mixture Information - attached to the safety data sheet.

Date of issue/Date of revision: 15, Apr, 2024Date of previous issue: 26, Mar, 2024Version: 616/31

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II
MACROPOXY C425V2 Epoxy Zinc Phosphate - Base
C425V2B

#### **SECTION 16: Other information**

SUMI(s) will be added to the SDS for products if both the following conditions are met:

- The product is classified as hazardous for health
- The product contains one or more REACH-registered substances for which extended safety data sheets (exposure scenarios) have been provided

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

Date of issue/Date of revision : 15, Apr, 2024 Date of previous issue : 26, Mar, 2024 Version : 6 17/31

# SUMI Safe Use of Mixtures Information for end-users

Title : Industrial spray painting, enclosed

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line with fully-enclosed spraying

# **Operational conditions**

Place of use : Indoor use

# Risk management measures (RMM)

| Contributing activity   | Process category       | Maximum             | Ventilation                             |                                       |
|---|------------------------|---------------------|---|---------------------------------------|
|   | (ies)                  | duration            | Туре                                    | ach (air changes per<br>hour)         |
| Preparation of material for application                                     | PROC05                 | More than 4 hours   | Enhanced (mechanical) room ventilation  | 5 - 10                                |
| Loading of application equipment and handling of coated parts before curing | PROC08b                | More than 4 hours   | Enhanced (mechanical) room ventilation  | 5 - 10                                |
| Industrial application of coatings and inks by spraying                     | PROC07                 | More than 4 hours   | Full containment/extraction             | 100 or equivalent                     |
| Film formation - force drying, stoving and other technologies               | PROC02                 | More than 4 hours   | Enhanced (mechanical) room ventilation  | 5 - 10                                |
| Cleaning  | PROC05                 | More than 4 hours   | Local exhaust ventilation               | Refer to relevant technical standards |
| Application equipment cleaning outside booth                                | PROC05                 | More than 4 hours   | Enhanced (mechanical) room ventilation  | 5 - 10                                |
| Waste management  | PROC08b                | More than 4 hours   | Enhanced (mechanical) room ventilation  | 5 - 10                                |
| Contributing activity   | Process category (ies) | Respiratory         | Eye                                     | Hands                                 |
| Preparation of material for application                                     | PROC05                 | None                | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Loading of application equipment and handling of coated parts before curing | PROC08b                | None                | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Industrial application of coatings and inks by spraying                     | PROC07                 | None                | None                                    | None                                  |
| Film formation - force drying, stoving and other technologies               | PROC02                 | None                | None                                    | None                                  |
| Cleaning  | PROC05                 | None                | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Application equipment cleaning outside booth                                | PROC05                 | None                | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Date of issue/Date of revision  | . ***                  | Date of previous is | sue : No previous validation            | Version 1 18/31                       |

Date of issue/Date of revision : \*\*\* Date of previous issue : No previous validation Version 1 18/31

| MACROPOXY C425V2 Epoxy Zinc Phosphale - base |         |      | mausmans            | industrial spray painting, enclosed |  |  |
|--|---------|------|---------------------|-------------------------------------|--|--|
| Waste management                             | PROC08b | None | Use eye protection  | Wear suitable gloves                |  |  |
|  |         |      | according to FN 166 | tested to FN374                     |  |  |

See chapter 8 of this Safety Data Sheet for specifications.





#### **Disclaimer**

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

Date of issue/Date of revision : \*\*\* Date of previous issue : No previous validation Version 1 19/31

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# SUMI Safe Use of Mixtures Information for end-users

Title : Industrial spray painting, walk-in booth

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line with walk-in spray booth

# **Operational conditions**

Place of use : Indoor use

# Risk management measures (RMM)

| Preparation of material for application equipment and handling of coated parts before curing Industrial application  PROC08b  More than 4 hours  Enhanced (mechanical) room ventilation  Facing application equipment and handling of coated parts before curing Industrial application of coatings and inks by spraying  PROC07  More than 4 hours  Local exhaust ventilation  Refer to relevant technical standards  Film formation - force drying, story and preparatius to Enhanced (mechanical) room ventilation  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Refer to relevant technical standards  Facing and inks by spraying  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Refer to relevant technical standards  Facing and inks by spraying  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Refer to relevant technical standards  Facing and inks by spraying  Facing and inks by spraying  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Facing and inks by spraying  Facing and inks by spraying  Facing and inks by spraying  PROC05  None  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Film formation - force drying, storying and other technologies  Cleaning  PROC05  None  | Contributing activity     | Process category | Maximum  | Ventilation               |                      |
|--|---------------------------|------------------|--|---------------------------|----------------------|
| Loading of application Loading of application PROC08b  More than 4 hours Enhanced (mechanical) room ventilation PROC07  More than 4 hours Enhanced (mechanical) room ventilation PROC07  More than 4 hours Enhanced (mechanical) room ventilation  Refer to relevant technical standards  Film formation - force drying, stoving and other technologies  PROC05  More than 4 hours Enhanced (mechanical) room ventilation  PROC05  More than 4 hours Enhanced (mechanical) room ventilation  Refer to relevant technical standards  5 - 10  Ventilation  PROC05  More than 4 hours Enhanced (mechanical) room ventilation  Refer to relevant technical standards  5 - 10  Ventilation  PROC05  More than 4 hours Enhanced (mechanical) room ventilation  PROC05  More than 4 hours Enhanced (mechanical) room ventilation  PROC08b  More than 4 hours Enhanced (mechanical) room ventilation  Fenhanced (mechanical) room ventilation  Fenhanced (mechanical) room ventilation  S - 10  Ventilation  Frequention of material for application of application  PROC05  None  PROC05  None  Verification  Ver |                           | (ies)            | duration   | Туре                      |                      |
| equipment and handling of coated parts before curing Industrial application of coatings and inks by spraying  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Refer to relevant technical standards  For the process category (les)  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Refer to relevant technical standards  For the process category (les)  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  For the process category (les)  Process category (les)  Preparation of material for application equipment and handling of coated parts before curing Industrial application of coatings and inks by spraying  PROC07  Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.  None  PROC05  None  Ventilation  Ventilation  For the process category (les)  For the process category (les)  PROC07  Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.  None  Vere protection according to EN 166.  Vere yer protection according to EN 166.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Vere yer protection according to EN 166.  Wear suitable gloves tested to EN374.  |                           | PROC05           | More than 4 hours                                |                           | 5 - 10               |
| Film formation - force drying, stoving and other technologies  Cleaning  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Refer to relevant technical standards  Refer to relevant technical standards  Refer to relevant technical standards  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Film formation equipment cleaning outside booth  Waste management  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  Film formation of material for application  PROC08b  None  PROC05  None  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.  Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  None  Wear suitable gloves tested to EN374.  Vear suitable gloves tested to EN374.   | equipment and handling of | PROC08b          | More than 4 hours                                |                           | 5 - 10               |
| Cleaning PROC05 More than 4 hours Local exhaust ventilation Refer to relevant technical standards  Application equipment cleaning outside booth PROC05 More than 4 hours Enhanced (mechanical) room ventilation 5 - 10  Waste management PROC08b More than 4 hours Enhanced (mechanical) room ventilation 5 - 10  Contributing activity Process category (les)  Respiratory Eye Hands  Contributing activity Process category (les)  None Use eye protection according to EN 166.  Description of material for application of paper activity process category (les)  None Use eye protection according to EN 166.  Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.  Film formation - force drying, stoving and other technologies  Cleaning PROC05 None Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.   |                           | PROC07           | More than 4 hours                                | Local exhaust ventilation |                      |
| Application equipment cleaning outside booth  Waste management  PROC08b  More than 4 hours  Enhanced (mechanical) room ventilation  Enhanced (mechanical) room ventilation  Enhanced (mechanical) room ventilation  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  More than 4 hours  Enhanced (mechanical) room ventilation  For the ventilation  For 10  Wear suitable gloves tested to EN374.   |                           | PROC04           | More than 4 hours                                |                           | 5 - 10               |
| Ventilation      | Cleaning                  | PROC05           | More than 4 hours                                | Local exhaust ventilation |                      |
| Contributing activity Process category (ies)  Preparation of material for application Loading of application equipment and handling of coated parts before curing Industrial application of coatings and inks by spraying Film formation - force drying, stoving and other technologies Cleaning  PROC05  None  Respiratory Respiratory  Respiratory  Eye  Hands  Wear suitable gloves tested to EN374.  Use eye protection according to EN 166.  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.   |                           | PROC05           | More than 4 hours                                |                           | 5 - 10               |
| Preparation of material for application  PROC05  None  Use eye protection according to EN 166.   | Waste management          | PROC08b          | More than 4 hours                                |                           | 5 - 10               |
| application  Loading of application equipment and handling of coated parts before curing  Industrial application of coatings and inks by spraying  PROC07  Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.  PROC04  None  Vear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.  Vear suitable gloves tested to EN374.   | Contributing activity     |                  | Respiratory                                      | Eye                       | Hands                |
| equipment and handling of coated parts before curing  Industrial application of coatings and inks by spraying  PROC07  Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.  Film formation - force drying, stoving and other technologies  Cleaning  PROC05  Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.  None  None  None  None  Wear suitable gloves tested to EN374.  Wear suitable gloves tested to EN374.   | •                         | PROC05           | None   |                           | o o                  |
| coatings and inks by spraying apparatus to EN 14594 with an assigned protection factor of at least 20.  Film formation - force drying, stoving and other technologies  Cleaning PROC05  None Use eye protection according to EN 166.  tested to EN374.  tested to EN374.   | equipment and handling of | PROC08b          | None   |                           |                      |
| stoving and other technologies  Cleaning  PROC05  None  Use eye protection according to EN 166.  Wear suitable gloves tested to EN374.   |                           | PROC07           | apparatus to EN 14594 with an assigned protectio | according to EN 166.      | · ·                  |
| according to EN 166. tested to EN374.  |                           | PROC04           | None   | None                      | None                 |
| Application equipment PROC05 None Use eye protection Wear suitable gloves  | Cleaning                  | PROC05           | None   |                           |                      |
| · · · · · · · · · · · · · · · · · · ·  | Application equipment     | PROC05           | None   | Use eye protection        | Wear suitable gloves |

Date of issue/Date of revision : \*\*\* Date of previous issue : No previous validation Version 1 20/31

| MACROPOXY C425V2 Epoxy Zinc Phosphate - Base |         |  | Industrial spray painting, walk-in booth |                                       |  |
|--|---------|--|--|---------------------------------------|--|
| cleaning outside booth                       |         |  | according to EN 166.                     | tested to EN374.                      |  |
| Waste management                             | PROC08b |  | Use eye protection according to EN 166.  | Wear suitable gloves tested to EN374. |  |

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# SUMI Safe Use of Mixtures Information for end-users

Title : Industrial application of coatings and inks by other than spraying-Enclosed

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line by brush, roller, dipping, spreading, coil, fluidized bed or curtain coating (enclosed application)

# **Operational conditions**

Place of use : Indoor use

# Risk management measures (RMM)

| Contributing activity   | Process category       | Maximum                                      | Ventil   | Ventilation                           |  |  |
|---|------------------------|--|--|---------------------------------------|--|--|
|   | (ies)                  | duration                                     | Туре   | ach (air changes per<br>hour)         |  |  |
| Preparation of material for application                                     | PROC05                 | More than 4 hours                            | Enhanced (mechanical) room ventilation                       | 5 - 10                                |  |  |
| Loading of application equipment and handling of coated parts before curing | PROC08b                | More than 4 hours                            | Enhanced (mechanical) room ventilation                       | 5 - 10                                |  |  |
| Industrial application of coatings and inks by other than spraying          | PROC10, PROC13         | More than 4 hours                            | Local exhaust ventilation                                    | Refer to relevant technical standards |  |  |
| Film formation - force drying, stoving and other technologies               | PROC02                 | More than 4 hours                            | Enhanced (mechanical) room ventilation                       | 5 - 10                                |  |  |
| Cleaning  | PROC05                 | More than 4 hours                            | Local exhaust ventilation                                    | Refer to relevant technical standards |  |  |
| Application equipment cleaning outside booth                                | PROC05                 | More than 4 hours                            | Enhanced (mechanical) room ventilation                       | 5 - 10                                |  |  |
| Waste management  | PROC08b                | More than 4 hours                            | Enhanced (mechanical) room ventilation                       | 5 - 10                                |  |  |
| Contributing activity   | Process category (ies) | Respiratory Eye                              |  | Hands                                 |  |  |
| Preparation of material for application                                     | PROC05                 | None   | Use eye protection according to EN 166.                      | Wear suitable gloves tested to EN374. |  |  |
| Loading of application equipment and handling of coated parts before curing | PROC08b                | None   | Use eye protection according to EN 166.  Wear suit tested to |                                       |  |  |
| Industrial application of coatings and inks by other than spraying          | PROC10, PROC13         | None   | nne None None  |                                       |  |  |
| Film formation - force drying, stoving and other technologies               | PROC02                 | None None                                    |  | None                                  |  |  |
| Cleaning  | PROC05                 | None Use eye protection according to EN 166. |  | Wear suitable gloves tested to EN374. |  |  |

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# MACROPOXY C425V2 Epoxy Zinc Phosphate - Base Industrial application of coatings and inks by other than spraying-Enclosed

| Application equipment cleaning outside booth | PROC05  | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
|--|---------|------|---|---------------------------------------|
| Waste management                             | PROC08b | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |

See chapter 8 of this Safety Data Sheet for specifications.





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# SUMI Safe Use of Mixtures Information for end-users

**Title**: Industrial application of coatings and inks by other than spraying-Local exhaust ventilation

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line by brush, roller, dipping, spreading, coil, fluidized bed or curtain coating (local exhaust ventilation only)

# **Operational conditions**

Place of use : Indoor use

# Risk management measures (RMM)

| Contributing activity   | Process category       | Maximum           | Ventila                                 | Ventilation                           |  |  |  |
|---|------------------------|-------------------|---|---------------------------------------|--|--|--|
|   | (ies)                  | duration          | Туре                                    | ach (air changes per<br>hour)         |  |  |  |
| Preparation of material for application                                     | PROC05                 | More than 4 hours | Enhanced (mechanical) room ventilation  | 5 - 10                                |  |  |  |
| Loading of application equipment and handling of coated parts before curing | PROC08b                | More than 4 hours | Enhanced (mechanical) room ventilation  | 5 - 10                                |  |  |  |
| Industrial application of coatings and inks by other than spraying          | PROC10, PROC13         | More than 4 hours | Local exhaust ventilation               | Refer to relevant technical standards |  |  |  |
| Film formation - force drying, stoving and other technologies               | PROC04                 | More than 4 hours | Enhanced (mechanical) room ventilation  | 5 - 10                                |  |  |  |
| Cleaning  | PROC05                 | More than 4 hours | Enhanced (mechanical) room ventilation  | 5 - 10                                |  |  |  |
| Waste management  | PROC08b                | More than 4 hours | Enhanced (mechanical) room ventilation  | 5 - 10                                |  |  |  |
| Contributing activity   | Process category (ies) | Respiratory       | Eye                                     | Hands                                 |  |  |  |
| Preparation of material for application                                     | PROC05                 | None              | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |  |  |  |
| Loading of application equipment and handling of coated parts before curing | PROC08b                | None              | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |  |  |  |
| Industrial application of coatings and inks by other than spraying          | PROC10, PROC13         | None              | Use eye protection according to EN 166. |                                       |  |  |  |
| Film formation - force drying, stoving and other technologies               | PROC04                 | None None         |   | None                                  |  |  |  |
| Cleaning  | PROC05                 | None              | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |  |  |  |
| Waste management  | PROC08b                |                   |   | Wear suitable gloves tested to EN374. |  |  |  |

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#### Title : Professional painting, outdoor brush/roller

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Outdoor painting by professionals with brush or roller

# **Operational conditions**

Place of use : Outdoor use

## Risk management measures (RMM)

| Contributing activity   | Process category       | Maximum           | Ventilation  |                                       |  |
|---|------------------------|-------------------|--|---------------------------------------|--|
|   | (ies)                  | duration          | Туре   | ach (air changes per<br>hour)         |  |
| Preparation of material for application                                     | PROC05                 | More than 4 hours | Outdoors   | 3 - 5                                 |  |
| Loading of application equipment and handling of coated parts before curing | PROC08a                | More than 4 hours | Outdoors   | 3 - 5                                 |  |
| Professional application of coatings and inks by brush or roller            | PROC10                 | More than 4 hours | Outdoors   | 3 - 5                                 |  |
| Film formation - force drying, stoving and other technologies               | PROC04                 | More than 4 hours | Outdoors   | 3 - 5                                 |  |
| Cleaning  | PROC05                 | More than 4 hours | Outdoors   | 3 - 5                                 |  |
| Waste management  | PROC08a                | More than 4 hours | Outdoors   | 3 - 5                                 |  |
| Contributing activity   | Process category (ies) | Respiratory       | Eye  | Hands                                 |  |
| Preparation of material for application                                     | PROC05                 | None              | Use eye protection according to EN 166.            | Wear suitable gloves tested to EN374. |  |
| Loading of application equipment and handling of coated parts before curing | PROC08a                | None              | Use eye protection according to EN 166.            | Wear suitable gloves tested to EN374. |  |
| Professional application of coatings and inks by brush or roller            | PROC10                 | None              | Use eye protection according to EN 166.            | Wear suitable gloves tested to EN374. |  |
| Film formation - force drying, stoving and other technologies               | PROC04                 | None              | None   | None                                  |  |
| Cleaning  | PROC05                 | None              | Use eye protection wear suitable of tested to EN37 |                                       |  |
| Waste management  | PROC08a                | None              | Use eye protection according to EN 166.            | Wear suitable gloves tested to EN374. |  |

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| Date of issue/Date of revision | *** | Date of previous issue | : No previous validation Version | 1 | 26/31 |
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# SUMI Safe Use of Mixtures Information for end-users

Title : Industrial spray painting, no booth

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line with no enclosure (only local exhaust ventilation)

# **Operational conditions**

Place of use : Indoor use

# Risk management measures (RMM)

| Contributing activity   | • •                    | Maximum  | Ventilation                               |                                       |  |
|---|------------------------|--|---|---------------------------------------|--|
|   | (ies) duration         |  | Туре                                      | ach (air changes per<br>hour)         |  |
| Preparation of material for application                                     | PROC05                 |  | Enhanced (mechanical) room ventilation    | 5 - 10                                |  |
| Loading of application equipment and handling of coated parts before curing | PROC08b                |  | Enhanced (mechanical) room<br>ventilation | 5 - 10                                |  |
| Industrial application of coatings and inks by spraying                     | PROC07                 | More than 4 hours  | Local exhaust ventilation                 | Refer to relevant technical standards |  |
| Film formation - force drying, stoving and other technologies               | PROC04                 |  | Enhanced (mechanical) room ventilation    | 5 - 10                                |  |
| Cleaning  | PROC05                 |  | Enhanced (mechanical) room ventilation    | 5 - 10                                |  |
| Waste management  | PROC08b                |  | Enhanced (mechanical) room ventilation    | 5 - 10                                |  |
| Contributing activity   | Process category (ies) | Respiratory  | Eye                                       | Hands                                 |  |
| Preparation of material for application                                     | PROC05                 | None   | Use eye protection according to EN 166.   | Wear suitable gloves tested to EN374. |  |
| Loading of application equipment and handling of coated parts before curing | PROC08b                | None   | Use eye protection according to EN 166.   | Wear suitable gloves tested to EN374. |  |
| Industrial application of coatings and inks by spraying                     | PROC07                 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166.   | Wear suitable gloves tested to EN374. |  |
| Film formation - force drying, stoving and other technologies               | PROC04                 | None   | None                                      | None                                  |  |
| Cleaning  | PROC05                 | None   | Use eye protection according to EN 166.   | Wear suitable gloves tested to EN374. |  |
| Waste management  | PROC08b                | None   | Use eye protection according to EN 166.   | Wear suitable gloves tested to EN374. |  |

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# SUMI Safe Use of Mixtures Information for end-users

Title : Professional application of coatings and inks by spraying-Outdoor

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

## General description of the process covered

Outdoor spray painting by professionals for general applications (e.g. decorative)

# **Operational conditions**

Place of use : Outdoor use

## Risk management measures (RMM)

| Contributing activity   | Process category       | Maximum      | Ventilation                             |                                       |  |
|---|------------------------|--------------|---|---------------------------------------|--|
|   | (ies)                  | duration     | Туре                                    | ach (air changes per<br>hour)         |  |
| Preparation of material for application                                     | PROC05                 | 1 to 4 hours | Outdoors                                | 3 - 5                                 |  |
| Loading of application equipment and handling of coated parts before curing | PROC08a                | 1 to 4 hours | Outdoors                                | 3 - 5                                 |  |
| Professional application of coatings and inks by spraying                   | PROC11                 | 1 to 4 hours | Outdoors                                | 3 - 5                                 |  |
| Film formation - force drying, stoving and other technologies               | PROC04                 | 1 to 4 hours | Outdoors                                | 3 - 5                                 |  |
| Cleaning  | PROC05                 | 1 to 4 hours | Outdoors                                | 3 - 5                                 |  |
| Waste management  | PROC08a                | 1 to 4 hours | Outdoors                                | 3 - 5                                 |  |
| Contributing activity   | Process category (ies) | Respiratory  | Eye                                     | Hands                                 |  |
| Preparation of material for application                                     | PROC05                 | None         | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |  |
| Loading of application equipment and handling of coated parts before curing | PROC08a                | None         | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |  |
| Professional application of coatings and inks by spraying                   | PROC11                 | None         | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |  |
| Film formation - force drying, stoving and other technologies               | PROC04                 | None         | None                                    | None                                  |  |
| Cleaning  | PROC05                 | None         | Use eye protection according to EN 166. |                                       |  |
| Waste management  | PROC08a                | None         | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |  |

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| Date of issue/Date of revision | * *** | Date of previous issue | : No previous validation Version | 1 | 30/31 |
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