M922B

## SAFETY DATA SHEET

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

#### 1.1 Product identifier

Product name : Epigrip M922 Glass Flake Epoxy - Base

Product code : M922B

#### 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 Protective & Marine

Tower Works Kestor Street Bolton BL2 2AL United Kingdom

+44 (0) 1204 521771

e-mail address of person responsible for this SDS

: hse.pm.emea@sherwin.com

#### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

**Telephone number** : 0844 892 0111

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. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

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

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

#### 2.2 Label elements

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

Hazard pictograms







Signal word : Danger

Hazard statements : Highly flammable liquid and vapour.

Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

Very 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. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.

Avoid release to the environment.

Response : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water or shower.

Storage : Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Hazardous ingredients : Epoxy Polymer

**Epoxy Polymer** 

Supplemental label

elements

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

USE ONLY

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

Special packaging requirements

Not applicable.

#### 2.3 Other hazards

Other hazards which do not result in classification

: Risk of spontaneous combustion. Spraydust, cloth and other contaminated organic material should be wetted and placed in a sealed metal container. Store in a fire-proof place.

The mixture may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect.

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

#### 3.2 Mixture

|                         |   |           | <u>Classification</u>   |      |
|-------------------------|---|-----------|---|------|
| Product/ingredient name | Identifiers   | %         | Regulation (EC) No. 1272/2008 [CLP]   | Туре |
| Zinc Phosphate          | EC: 231-944-3<br>CAS: 7779-90-0<br>Index: 030-011-00-6  | ≥25 - <50 | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                  | [1]  |
| Epoxy Polymer           | EC: 500-033-5<br>CAS: 25068-38-6<br>Index: 603-074-00-8 | ≥10 - <25 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 | [1]  |
| Epoxy Polymer           | CAS: 28064-14-4   | ≥5 - <10  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317                   | [1]  |

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

|                     |                     |          | Aquatic Chronic 2, H411  |         |
|---------------------|---------------------|----------|--|---------|
| Methyl Ethyl Ketone | REACH #:            | ≥5 - <10 | Flam. Liq. 2, H225   | [1] [2] |
|                     | 01-2119457290-43    |          | - I '' 0 H040  |         |
|                     | EC: 201-159-0       |          | Eye Irrit. 2, H319   |         |
|                     | CAS: 78-93-3        |          | STOT SE 3, H336  |         |
|                     | Index: 606-002-00-3 |          | EUH066   |         |
| Xylene              | REACH #:            | ≥5 - <10 | Flam. Liq. 3, H226   | [1] [2] |
| -                   | 01-2119488216-32    |          |  |         |
|                     | EC: 215-535-7       |          | Acute Tox. 4, H312   |         |
|                     | CAS: 1330-20-7      |          | Acute Tox. 4, H332   |         |
|                     | Index: 601-022-00-9 |          | Skin Irrit. 2, H315  |         |
|                     |                     |          | Eye Irrit. 2, H319   |         |
|                     |                     |          | STOT SE 3, H335  |         |
|                     |                     |          | STOT RE 2, H373  |         |
|                     |                     |          | Asp. Tox. 1, H304  |         |
|                     |                     |          |  |         |
|                     |                     |          | 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 or vPvBs 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
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

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. |
|---------|---|
| F       |   |

**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 recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show the container or label.

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

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. 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

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 vapour 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

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

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 sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

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

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

See toxicological information (Section 11)

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

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Recommended: alcohol-resistant foam, carbon dioxide, powders.

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 thermal decomposition 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.

#### **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 vapour or mist. Refer to protective measures listed in sections 7 and 8.

Keep unnecessary and unprotected personnel from entering.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any

information in Section 8 on suitable and unsuitable materials. See also the

information in "For non-emergency personnel".

6.2 Environmental precautions

: 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.

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

# 6.3 Methods and material 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 vapours in air and avoid vapour 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

Vapours are heavier than air and may spread along floors. Vapours 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 vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

#### Notes on joint storage

Keep away from: oxidising 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 unauthorised 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 spilt product. Store in closed original container at temperatures between 5°C and 25°C.

#### Seveso Directive - Reporting thresholds (in tonnes)

#### Danger criteria

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

| Category  | Notification and MAPP threshold | Safety report threshold |
|---|---------------------------------|-------------------------|
| P5c: Flammable liquids 2 and 3 not falling under P5a or P5b E1: Hazardous to the aquatic environment - Acute 1 or Chronic 1 | 5000<br>100                     | 50000<br>200            |
| C7b: Highly flammable (R11) C9i: Very toxic for the environment   | 5000<br>100                     | 50000<br>200            |

#### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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**

| Methyl Ethyl Ketone | EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed |
|---------------------|---|
|                     | through skin.   |
|                     | STEL: 899 mg/m³ 15 minutes.                             |
|                     | STEL: 300 ppm 15 minutes.                               |
|                     | TWA: 600 mg/m³ 8 hours.                                 |
|                     | TWA: 200 ppm 8 hours.                                   |
| Xylene              | EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed |
|                     | through skin.   |
|                     | STEL: 441 mg/m³ 15 minutes.                             |
|                     | TWA: 50 ppm 8 hours.                                    |
|                     | TWA: 220 mg/m³ 8 hours.                                 |
|                     | STEL: 100 ppm 15 minutes.                               |

## 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 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**

No DNELs/DMELs available.

#### **PNECs**

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

No PNECs available

#### 8.2 Exposure controls

## 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 vapours 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 Hand protection Gloves

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

- : Wear suitable gloves tested to EN374.
- : Short Term Exposure less than 10 minutes Continuous use Nitrile gloves. Hazardous ingredients Section 3 For more than 4 hours of protection in the presence of Ethyl methyl ketone or Methyl ethyl ketone Acetone or Methyl isobutyl ketone Butyl gloves 0.7mm For more than 4 hours of protection in the presence of Aromatic solvent use polyvinyl alcohol (PVA) gloves.

Long Term Exposure Spill / For prolonged or repeated handling, use PE / PE Laminate gloves > 8 hours (breakthrough time) .

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 fibres or of high-temperature-resistant synthetic fibres.
- : 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.

#### 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.

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

Respiratory protection

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

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

<u>Appearance</u>

Physical state : Liquid. Colour Various Odour : Paint

Odour threshold : Not Available (Not Tested).

рН Testing not technically possible. Melting point/freezing point Not Available (Not Tested).

Initial boiling point and

boiling range

: 78°C

Flash point : Closed cup: 9°C [Pensky-Martens Closed Cup]

Evaporation rate : 5.6 (butyl acetate = 1) Flammability (solid, gas) : Not Available (Not Tested). **Burning time** Not Available (Not Tested). Not Available (Not Tested). **Burning rate** 

Upper/lower flammability or

explosive limits

: Lower: 1% Upper: 10%

Vapour pressure : 1.6 kPa [at 20°C] Vapour density : 2.48 [Air = 1]

Relative density : 1.75

Not Available (Not Tested). Solubility(ies) Solubility in water : Not Available (Not Tested). Partition coefficient: n-octanol/ Not Available (Not Tested).

water

Auto-ignition temperature : Not Available (Not Tested). Decomposition temperature Not Available (Not Tested).

Viscosity Kinematic (room temperature): >0.205 cm<sup>2</sup>/s

Kinematic (40°C): >0.07 cm<sup>2</sup>/s

Explosive properties

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

9.2 Other information

Heat of combustion : 4.262 kJ/g

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#### **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:

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

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 toxicological effects

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 vapour 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 sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

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

#### **Acute toxicity**

| Product/ingredient name | Result               | Species | Dose       | Exposure |
|-------------------------|----------------------|---------|------------|----------|
| Methyl Ethyl Ketone     | LD50 Dermal          | Rabbit  | 6480 mg/kg | -        |
|                         | LD50 Oral            | Rat     | 2737 mg/kg | -        |
| Xylene                  | LC50 Inhalation Gas. | Rat     | 5000 ppm   | 4 hours  |
|                         | LD50 Oral            | Rat     | 4300 mg/kg | -        |

#### Acute toxicity estimates

| Route | ATE value                    |  |
|-------|------------------------------|--|
|       | 21438.4 mg/kg<br>97447.3 ppm |  |

#### Irritation/Corrosion

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

| Product/ingredient name | Result                   | Species | Score | Exposure      | Observation |
|-------------------------|--------------------------|---------|-------|---------------|-------------|
| Epoxy Polymer           | Eyes - Mild irritant     | Rabbit  | -     | 100           | -           |
|                         |                          |         |       | milligrams    |             |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500  | -           |
|                         |                          |         |       | microliters   |             |
|                         | Skin - Severe irritant   | Rabbit  | -     | 24 hours 2    | -           |
|                         |                          |         |       | milligrams    |             |
| Methyl Ethyl Ketone     | Skin - Mild irritant     | Rabbit  | -     | 24 hours 14   | -           |
|                         |                          |         |       | milligrams    |             |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500  | -           |
|                         |                          |         |       | milligrams    |             |
| Xylene                  | Eyes - Mild irritant     | Rabbit  | -     | 87 milligrams | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 5    | -           |
|                         |                          |         |       | milligrams    |             |
|                         | Skin - Mild irritant     | Rat     | -     | 8 hours 60    | -           |
|                         |                          |         |       | microliters   |             |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500  | -           |
|                         |                          |         |       | milligrams    |             |
|                         | Skin - Moderate irritant | Rabbit  | -     | 100 Percent   | -           |

Conclusion/Summary

: Not available.

**Sensitisation** 

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)

| Product/ingredient name       | Category                 | Route of exposure | Target organs                                       |
|-------------------------------|--------------------------|-------------------|---|
| Methyl Ethyl Ketone<br>Xylene | Category 3<br>Category 3 |                   | Narcotic effects<br>Respiratory tract<br>irritation |

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

| Product/ingredient name | Category   | Route of exposure | Target organs  |
|-------------------------|------------|-------------------|----------------|
| Xylene                  | Category 2 | Not determined    | Not determined |

#### **Aspiration hazard**

| Product/ingredient name | Result                         |  |
|-------------------------|--------------------------------|--|
| Xylene                  | ASPIRATION HAZARD - Category 1 |  |

**Other information**: Not available.

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#### **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 0.268 mg/l                | Algae                            | 96 hours |
| Methyl Ethyl Ketone     | Acute EC50 >500000 µg/l Marine water | Algae - Skeletonema costatum     | 96 hours |
|                         | Acute EC50 5091000 µg/l Fresh water  | Daphnia - Daphnia magna -        | 48 hours |
|                         |                                      | Larvae                           |          |
|                         | Acute LC50 3220000 µg/l Fresh water  | Fish - Pimephales promelas       | 96 hours |
| Xylene                  | Acute LC50 8500 μg/l Marine water    | Crustaceans - Palaemonetes pugio | 48 hours |
|                         | Acute LC50 13400 μg/l Fresh water    | Fish - Pimephales promelas       | 96 hours |

#### 12.2 Persistence and degradability

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

**Conclusion/Summary**: Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| Methyl Ethyl Ketone     | -                 | -          | Readily          |
| Xylene                  | -                 | -          | Readily          |

#### 12.3 Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF         | Potential |
|-------------------------|--------------------|-------------|-----------|
| Zinc Phosphate          | -                  | 60960       | high      |
| Epoxy Polymer           | -                  | 31          | low       |
| Xylene                  | -                  | 8.1 to 25.9 | low       |

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

*Mobility* : Not available.

#### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.vPvB : Not applicable.

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

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains

and sewers.

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

#### 13.1 Waste treatment methods

#### **Product**

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

#### Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

#### Hazardous waste

: Yes

## European waste catalogue (EWC)

: waste paint and varnish containing organic solvents or other dangerous 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 minimised 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.

## European waste catalogue (EWC)

: packaging containing residues of or contaminated by dangerous substances 15 01

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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

#### **SECTION 14: Transport information**

|   | ADR/RID | IMDG                                    | IATA   |
|---|---------|---|--------|
| 14.1 UN number                                  | UN1263  | UN1263                                  | UN1263 |
| 14.2 UN proper shipping name                    | PAINT   | PAINT. Marine pollutant (Epoxy Polymer) | PAINT  |
| 14.3 Transport<br>Hazard Class(es)/<br>Label(s) | 3       | 3                                       | 3      |
| 14.4 Packing group                              | II      | II                                      | П      |
| 14.5<br>Environmental<br>hazards                | Yes.    | Yes.                                    | No.    |
|   |         |   |        |

Epigrip M922 Glass Flake Epoxy - Base M922B

#### **SECTION 14: Transport information**

| Additional information | The environmentally hazardous substance mark is not required when transported | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. | The environmentally hazardous substance mark may appear if required by |
|------------------------|---|---|--|
|                        | in sizes of ≤5 L or ≤5 kg.  Special provisions                                | Emergency schedules (EmS)   | other transportation regulations.                                      |
|                        | 640 (C)  Tunnel code  D/E   | F-E, S-E  | Special provisions Not Applicable                                      |

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 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: 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.

#### 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 authorisation

#### **Annex XIV**

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

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

Other EU regulations

VOC content (2010/75/EU) : 11.6 w/w

204 g/l

#### **National regulations**

15.2 Chemical Safety Assessment

: No Chemical Safety Assessment has been carried out.

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#### **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

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

DPD = Dangerous Preparations Directive [1999/45/EC] DSD = Dangerous Substances Directive [67/548/EEC] IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by

Regulation (EU) No. 453/2010

Directive 96/82/EC, and relative amendments & additions Directive 2008/98/EC, and relative amendments & additions Directive 2000/39/EC, and relative amendments & additions

CEPE Guidelines

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

| Classification          | Justification         |
|-------------------------|-----------------------|
| Flam. Liq. 2, H225      | On basis of test data |
| Skin Irrit. 2, H315     | Calculation method    |
| Eye Irrit. 2, H319      | Calculation method    |
| Skin Sens. 1, H317      | Calculation method    |
| Aquatic Acute 1, H400   | Calculation method    |
| Aquatic Chronic 1, H410 | Calculation method    |

| Full text | t of | abb | revi | ated | Η |
|-----------|------|-----|------|------|---|
| etatomo   | nte  | •   |      |      |   |

: H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 (dermal) Harmful in contact with skin. Causes skin irritation. H315

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

H332 Harmful if inhaled.

(inhalation)

May cause respiratory irritation. H335 May cause drowsiness or dizziness. H336

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.

## Full text of classifications

[CLP/GHS]

: Acute Tox. 4. H312 ACUTE TOXICITY (dermal) - Category 4 Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4 Aquatic Acute 1, H400 ACUTE AQUATIC HAZARD - Category 1 Aquatic Chronic 1, H410 LONG-TERM AQUATIC HAZARD - Category 1 Aquatic Chronic 2, H411 LONG-TERM AQUATIC HAZARD - Category 2

Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1

**EUH066** Repeated exposure may cause skin dryness or cracking. Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2

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

Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

STOT RE 2, H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) - Category 2

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE

EXPOSURE) (Respiratory tract irritation) - Category 3

STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE

EXPOSURE) (Narcotic effects) - Category 3

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

information.

Version : 3

#### Notice to reader

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. 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.

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