



WEST & SENIOR LTD

Revision date 11/12/2024

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and
Regulation (EC) No. 1272/2008 Including amendments

Revision Number 1

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

1.1. Product identifier

Product Name EP FASCOL SIGNAL RED PIGMENT

Product Code(s) WS40530A

Safety data sheet number 40182

Unique Formula Identifier (UFI) NS8K-W39U-3005-Y961

Pure substance/mixture Mixture

Contains bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE; Bisphenol F diglycidyl ether, reaction mass of isomers; oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

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

Recommended use Colouring of epoxide compound & systems. For industrial use only.

1.3. Details of the supplier of the safety data sheet

Importer

WSEU LIMITED
The Penthouse Floor
5 Lapps Quay
Cork
Ireland
T12 RW7D

For further information, please contact

Supplier

West & Senior Ltd
Milltown Street
Radcliffe
Manchester
M26 1WE
UK

E-mail address info@westsenior.co.uk

Non-Emergency Telephone Number + 44 01617247131

1.4. Emergency telephone number

Emergency Telephone +44 0161 724 7131 Only available 8am to 4pm, Monday to Friday (UK Time Zone)

Emergency Telephone - §45 - (EC)1272/2008

Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| | |
|------------------------|---------------------|
| Skin irritation | Category 2 - (H315) |
| Eye irritation | Category 2 - (H319) |

| | |
|--|---------------------|
| Skin sensitization | Category 1 - (H317) |
| Hazardous to the aquatic environment - chronic | Category 2 - (H411) |

2.2. Label elements

Contains bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE; Bisphenol F diglycidyl ether, reaction mass of isomers; oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**Signal word**

Warning

Hazard statements

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements - EU (§28, 1272/2008)

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P273 - Avoid release to the environment.

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P391 - Collect spillage.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards**Other hazards**

No information available.

PBT & vPvB

None known.

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable

3.2 Mixtures

| Chemical name | CAS No. | Weight-% | REACH registration number | EC No (EU Index No) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|--|-----------|----------|---------------------------|-----------------------------|---|--|----------|----------------------|
| bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE | 1675-54-3 | 30-60% | 01-21194566 19-26-0000 | (603-073-00-2) 216-823-5 | Aquatic Chronic 2 (H411) | Eye Irrit. 2 :: C>=5% Skin Irrit. 2 :: | - | - |

| | | | | | | | | |
|--|------------|--------|---------------------------|----------------|---|-------|---|---|
| | | | | | Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) | C>=5% | | |
| Bisphenol F diglycidyl ether, reaction mass of isomers | - | 10-30% | 01-21194543 92-40-XXXX | 701-263-0 | Aquatic Chronic 2 (H411) Skin Sens. 1 (H317) Skin Irrit. 2 (H315) | - | - | - |
| BARIUM SULPHATE | 7727-43-7 | 5-10% | 01-21194912 74-35-0001 | 231-784-4 | No data available | - | - | - |
| oxirane, mono[(C12-14-alkyl oxy)methyl] derivs. | 68609-97-2 | 5-10% | 01-21194852 89-22-0000 | (603-103-00-4) | Skin Sens. 1 (H317) Skin Irrit. 2 (H315) | - | - | - |
| C.I. PIGMENT VIOLET 19 | 1047-16-1 | <1% | 01-21194568 14-32-0000 | 213-879-2 | No data available | - | - | - |
| TITANIUM DIOXIDE | 13463-67-7 | <1% | 01-21194893 79-17-0000 | 236-675-5 | No data available | - | - | - |
| silica (quartz) | 7631-86-9 | <1% | 01-21193794 99-16-0000 | 231-545-4 | No data available | - | - | - |
| SILICA (CRYSTALLINE) | 14808-60-7 | <0.01% | No data available | 238-878-4 | STOT RE 1 (H372) | - | - | - |
| Trimethylolpropane | 77-99-6 | <0.01% | 01-21194867 99-10-0000 | 201-074-9 | Repr. 2 (H361fd) | - | - | - |

Full text of H- and EUH-phrases: see section 16Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE_{mix}) for classifying a mixture based on its components

| Chemical name | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapor - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|---|-----------------|-------------------|---|---|--------------------------------------|
| bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE 1675-54-3 | 11266.1 | 20000 | No data available | No data available | No data available |
| BARIUM SULPHATE 7727-43-7 | 307000 | No data available | No data available | No data available | No data available |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2 | 17100 | 4000 | No data available | No data available | No data available |
| C.I. PIGMENT VIOLET 19 1047-16-1 | 7500 | 2000 | No data available | No data available | No data available |
| TITANIUM DIOXIDE 13463-67-7 | 10000 | No data available | 5.09 | No data available | No data available |
| silica (quartz) 7631-86-9 | 7900 | 5000 | 58.8 | No data available | No data available |
| Trimethylolpropane 77-99-6 | 14100 | 10000 | No data available | No data available | No data available |

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Nanoforms

C.I. PIGMENT VIOLET 19 (1047-16-1)

| Name of (set of) nanoform(s) | Particle characteristics | Value | Method |
|--------------------------------------|----------------------------------|-----------|--------------------------|
| Plate Aspect ratio (x) =1 to 3 [TEM] | Particle size distribution - d10 | 10-40 nm | No information available |
| Plate Aspect ratio (x) =1 to 3 [TEM] | Particle size distribution - d50 | 15-70 nm | No information available |
| Plate Aspect ratio (x) =1 to 3 [TEM] | Particle size distribution - d90 | 40-110 nm | No information available |

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---|---|
| General advice | Show this safety data sheet to the doctor in attendance. |
| Inhalation | Remove to fresh air. Get medical attention immediately if symptoms occur. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. |
| Skin contact | May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes. |
| Ingestion | Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician. |
| Self-protection of the first aider | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). |

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

| | |
|----------------------------|---|
| Symptoms | Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. |
| Effects of Exposure | No information available. |

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

| | |
|---------------------------|--|
| Note to physicians | May cause sensitization in susceptible persons. Treat symptomatically. |
|---------------------------|--|

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|-------------------------------------|---|
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|-------------------------------------|---|

| | |
|---------------------------------------|---|
| Unsuitable extinguishing media | Do not scatter spilled material with high pressure water streams. |
|---------------------------------------|---|

5.2. Special hazards arising from the substance or mixture

| | |
|---|---|
| Specific hazards arising from the chemical | Product is or contains a sensitizer. May cause sensitization by skin contact. |
|---|---|

5.3. Advice for firefighters

| | |
|---|--|
| Special protective equipment and precautions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |
|---|--|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|---------------------------------|--|
| Personal precautions | Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
| Other information | Refer to protective measures listed in Sections 7 and 8. |
| For emergency responders | Use personal protection recommended in Section 8. |

6.2. Environmental precautions

| | |
|----------------------------------|---|
| Environmental precautions | Prevent further leakage or spillage if safe to do so. |
|----------------------------------|---|

6.3. Methods and material for containment and cleaning up

| | |
|--|--|
| Methods for containment | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Take up mechanically, placing in appropriate containers for disposal. |
| Prevention of secondary hazards | Clean contaminated objects and areas thoroughly observing environmental regulations. |

6.4. Reference to other sections

| | |
|------------------------------------|--|
| Reference to other sections | See section 8 for more information. See section 13 for more information. |
|------------------------------------|--|

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|---------------------------------------|--|
| Advice on safe handling | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. |
| General hygiene considerations | Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|---------------------------------|--|
| Storage Conditions | Keep containers tightly closed in a dry, cool and well-ventilated place. |
| Storage class (TRGS 510) | Storage class 10. |

7.3. Specific end use(s)

| | |
|--------------------------------------|---------------------------|
| Risk Management Methods (RMM) | No information available. |
|--------------------------------------|---------------------------|

SECTION 8: Exposure controls/personal protection

8.1. Control parameters**Exposure Limits**

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|---|---|--|--|---|---|
| BARIUM SULPHATE 7727-43-7 | TWA 0.5 mg/m ³ | - | TWA: 5 mg/m ³ | TWA: 10.0 mg/m ³ | TWA: 10 mg/m ³ TWA: 4 mg/m ³ |
| TITANIUM DIOXIDE 13463-67-7 | - | TWA: 5 mg/m ³ STEL 10 mg/m ³ | TWA: 10 mg/m ³ | TWA: 10.0 mg/m ³ | TWA: 10 mg/m ³ TWA: 4 mg/m ³ |
| silica (quartz) 7631-86-9 | - | TWA: 4 mg/m ³ | TWA: 3 mg/m ³ TWA: 10 mg/m ³ | TWA: 1.0 mg/m ³ | TWA: 1.2 mg/m ³ |
| SILICA (CRYSTALLINE) 14808-60-7 | TWA: 0.1 mg/m ³ | TWA: 0.05 mg/m ³ | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ |
| Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |
| TITANIUM DIOXIDE 13463-67-7 | - | - | TWA: 6 mg/m ³ STEL: 12 mg/m ³ | TWA: 5 mg/m ³ | - |
| silica (quartz) 7631-86-9 | - | TWA: 0.1 mg/m ³ TWA: 4.0 mg/m ³ | TWA: 1.5 mg/m ³ STEL: 3 mg/m ³ uncalcinated with no content of Quartz | TWA: 2 mg/m ³ | TWA: 5 mg/m ³ |
| SILICA (CRYSTALLINE) 14808-60-7 | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ | TWA: 0.3 mg/m ³ TWA: 0.1 mg/m ³ STEL: 0.6 mg/m ³ STEL: 0.2 mg/m ³ | TWA: 0.1 mg/m ³ | TWA: 0.05 mg/m ³ |
| Chemical name | France | Germany TRGS | Germany DFG | Greece | Hungary |
| bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE 1675-54-3 | - | - | skin sensitizer | - | - |
| BARIUM SULPHATE 7727-43-7 | - | TWA: 1.25 mg/m ³ TWA: 10 mg/m ³ | TWA: 4 mg/m ³ TWA: 0.3 mg/m ³ Peak: 2.4 mg/m ³ | - | - |
| TITANIUM DIOXIDE 13463-67-7 | TWA: 10 mg/m ³ | TWA: 1.25 mg/m ³ TWA: 10 mg/m ³ | TWA: 0.3 mg/m ³ Peak: 2.4 mg/m ³ | TWA: 10 mg/m ³ TWA: 5 mg/m ³ | - |
| silica (quartz) 7631-86-9 | - | TWA: 4 mg/m ³ | TWA: 0.02 mg/m ³ Peak: 0.16 mg/m ³ | - | - |
| SILICA (CRYSTALLINE) 14808-60-7 | TWA: 0.1 mg/m ³ | - | - | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ |
| Chemical name | Ireland | Italy MDLPS | Italy AIDII | Latvia | Lithuania |
| BARIUM SULPHATE 7727-43-7 | TWA: 5 mg/m ³ STEL: 15 mg/m ³ | - | TWA: 5 mg/m ³ | - | - |
| TITANIUM DIOXIDE 13463-67-7 | TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³ | - | TWA: 10 mg/m ³ | TWA: 10 mg/m ³ | TWA: 5 mg/m ³ |
| silica (quartz) 7631-86-9 | TWA: 6 mg/m ³ TWA: 2.4 mg/m ³ STEL: 18 mg/m ³ STEL: 7.2 mg/m ³ | - | - | TWA: 1 mg/m ³ | - |
| SILICA (CRYSTALLINE) 14808-60-7 | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ | TWA: 0.1 mg/m ³ | TWA: 0.025 mg/m ³ | TWA: 0.1 mg/m ³ | TWA: 0.1 ppm |
| Trimethylolpropane 77-99-6 | - | - | - | - | Ceiling: 5 ppm |
| Chemical name | Luxembourg | Malta | Netherlands | Norway | Poland |
| BARIUM SULPHATE 7727-43-7 | - | - | - | TWA: 0.5 mg/m ³ STEL: 1.5 mg/m ³ | - |
| TITANIUM DIOXIDE 13463-67-7 | - | - | - | TWA: 5 mg/m ³ STEL: 10 mg/m ³ | TWA: 10 mg/m ³ STEL: 30 mg/m ³ |
| silica (quartz) | - | - | - | TWA: 1.5 mg/m ³ | TWA: 10 mg/m ³ |

| | | | | | |
|---|------------------------------|---|---|--|---|
| 7631-86-9 SILICA (CRYSTALLINE) 14808-60-7 | - | - | TWA: 0.075 mg/m ³ | STEL: 3 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.1 mg/m ³ TWA: 0.3 mg/m ³ STEL: 0.9 mg/m ³ STEL: 0.15 mg/m ³ STEL: 0.3 mg/m ³ | TWA: 2 mg/m ³ TWA: 0.1 mg/m ³ |
| Chemical name | Portugal | Romania | Slovakia | Slovenia | Spain |
| BARIUM SULPHATE 7727-43-7 | TWA: 5 mg/m ³ | - | TWA: 4 mg/m ³ TWA: 1.5 mg/m ³ | - | TWA: 10 mg/m ³ |
| TITANIUM DIOXIDE 13463-67-7 | TWA: 10 mg/m ³ | TWA: 10 mg/m ³ STEL: 15 mg/m ³ | TWA: 5 mg/m ³ | - | TWA: 10 mg/m ³ |
| silica (quartz) 7631-86-9 | - | - | - | TWA: 4 mg/m ³ | - |
| SILICA (CRYSTALLINE) 14808-60-7 | TWA: 0.025 mg/m ³ | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ STEL: 0.5 mg/m ³ | TWA: 0.05 mg/m ³ | TWA: 0.05 mg/m ³ |
| Chemical name | Sweden | | Switzerland | | United Kingdom |
| BARIUM SULPHATE 7727-43-7 | - | | TWA: 3 mg/m ³ TWA: 10 mg/m ³ | | TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³ |
| TITANIUM DIOXIDE 13463-67-7 | NGV: 5 mg/m ³ | | TWA: 3 mg/m ³ TWA: 10 mg/m ³ | | TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³ |
| silica (quartz) 7631-86-9 | - | | TWA: 4 mg/m ³ | | TWA: 6 mg/m ³ TWA: 2.4 mg/m ³ STEL: 18 mg/m ³ STEL: 7.2 mg/m ³ |
| SILICA (CRYSTALLINE) 14808-60-7 | NGV: 0.1 mg/m ³ | | TWA: 0.15 mg/m ³ | | TWA: 0.1 mg/m ³ STEL: 0.3 mg/m ³ |
| Trimethylolpropane 77-99-6 | NGV: 5 mg/m ³ | | - | | - |

Biological occupational exposure limits

| Chemical name | European Union | Austria | Bulgaria | Croatia | Czech Republic |
|------------------------------------|----------------|----------------|----------|---------|----------------|
| SILICA (CRYSTALLINE) 14808-60-7 | - | Check (-) | - | - | - |

Derived No Effect Level (DNEL) - Workers

| Chemical name | Oral | Dermal | Inhalation |
|---|------|---------------------------|--|
| bis[4-(2,3-EPOXYPROPOXY)PHENYL] PROPANE 1675-54-3 | - | 0.75 mg/kg bw/day [4] [6] | 4.93 mg/m ³ [4] [6] |
| BARIUM SULPHATE 7727-43-7 | - | - | 10 mg/m ³ [4] [6] 10 mg/m ³ [5] [6] |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2 | - | 1 mg/kg bw/day [4] [6] | 3.6 mg/m ³ [4] [6] |
| C.I. PIGMENT VIOLET 19 1047-16-1 | - | 42 mg/kg bw/day [4] [6] | 147 mg/m ³ [4] [6] 3 mg/m ³ [5] [6] |
| Trimethylolpropane 77-99-6 | - | 0.94 mg/kg bw/day [4] [6] | 3.3 mg/m ³ [4] [6] |

Notes

| | |
|-----|--------------------------|
| [4] | Systemic health effects. |
| [5] | Local health effects. |
| [6] | Long term. |

Derived No Effect Level (DNEL) - General Public

| Chemical name | Oral | Dermal | Inhalation |
|---|----------------------------|--------|--------------------------------|
| bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE 1675-54-3 | 0.5 mg/kg bw/day [4] [6] | - | 0.87 mg/m ³ [4] [6] |
| BARIUM SULPHATE 7727-43-7 | 13000 mg/kg bw/day [4] [6] | - | 10 mg/m ³ [4] [6] |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2 | 0.5 mg/kg bw/day [4] [6] | - | 0.87 mg/m ³ [4] [6] |
| C.I. PIGMENT VIOLET 19 1047-16-1 | 25 mg/kg bw/day [4] [6] | - | - |
| Trimethylolpropane 77-99-6 | 0.34 mg/kg bw/day [4] [6] | - | 0.58 mg/m ³ [4] [6] |

Notes

| | |
|-----|--------------------------|
| [4] | Systemic health effects. |
| [6] | Long term. |

Predicted No Effect Concentration (PNEC)

| Chemical name | Freshwater | Freshwater (intermittent release) | Marine water | Marine water (intermittent release) | Air |
|---|-------------|--------------------------------------|--------------|--|-----|
| bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE 1675-54-3 | 0.006 mg/L | 0.018 mg/L | 0.0006 mg/L | 0.0018 mg/L | - |
| C.I. PIGMENT RED 254 84632-65-5 | 10 mg/L | 1 mg/L | 1 mg/L | - | - |
| BARIUM SULPHATE 7727-43-7 | 115 µg/L | - | - | - | - |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2 | 0.1058 mg/L | 0.072 mg/L | 0.01058 mg/L | - | - |

| Chemical name | Freshwater sediment | Marine sediment | Sewage treatment | Soil | Food chain |
|---|-----------------------------|-----------------------------|------------------|-------------------------|---------------|
| bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE 1675-54-3 | 0.341 mg/kg sediment dw | 0.0341 mg/kg sediment dw | 10 mg/L | 0.0647 mg/kg soil dw | 11 mg/kg food |
| C.I. PIGMENT RED 254 84632-65-5 | 377 mg/kg sediment dw | 37.7 mg/kg sediment dw | 1 mg/L | 1 mg/kg soil dw | - |
| BARIUM SULPHATE 7727-43-7 | 600.4 mg/kg sediment dw | - | 62.2 mg/L | 207.7 mg/kg soil dw | - |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2 | 307.16 mg/kg sediment dw | 30.72 mg/kg sediment dw | 10 mg/L | 1.234 mg/kg soil dw | - |

8.2. Exposure controls

| | |
|--|---|
| Engineering controls | No information available. |
| Personal protective equipment | |
| Eye/face protection | Wear safety glasses with side shields (or goggles). |
| Hand protection | Wear chemically resistant gloves (tested in accordance to EN 374-1 Type C or greater to be assessed by local risk assessment and physical activity) in combination with employee training. Glove material : Neoprene , Nitriles. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Wear suitable gloves. Impervious gloves. |
| Skin and body protection | Wear suitable protective clothing. Long sleeved clothing. |
| Respiratory protection | Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| General hygiene considerations | Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. |
| Environmental exposure controls | No information available. |

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|-----------------------|----------------------------|
| Appearance | Coloured paste, Liquid, or |
| Physical state | Liquid |
| Color | red |
| Odor | Slight |
| Odor threshold | No information available |

| Property | Values | Remarks • Method |
|--|-------------------|-------------------------|
| Melting point / freezing point | No data available | None known |
| Initial boiling point and boiling range | No data available | None known |
| Flammability | No data available | None known |
| Flammability Limit in Air | | None known |
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive limits | No data available | |
| Flash point | 150 °C | None known |
| Autoignition temperature | 1929 - 400 °C | (ASTM D 1929) 400°C |
| Decomposition temperature | | None known |
| SADT (°C) | No data available | None known |
| pH | No data available | None known |
| pH (as aqueous solution) | No data available | None known |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | None known |
| Water solubility | No data available | None known |
| Solubility(ies) | No data available | None known |
| Partition coefficient | No data available | None known |

| | | |
|----------------------------|--------------------------|------------|
| Vapor pressure | No data available | None known |
| Relative density | No data available | None known |
| Bulk density | No data available | |
| Liquid Density | No data available | |
| Relative vapor density | No data available | None known |
| Particle characteristics | | |
| Particle Size | No information available | |
| Particle Size Distribution | No information available | |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No information available

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity Based on available data, the classification criteria are not met.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral) 99,999.00 mg/kg
 ATEmix (dermal) 99,999.00 mg/kg
 ATEmix (inhalation-gas) 99,999.00 ppm
 ATEmix (inhalation-vapor) 99,999.00 mg/l
 ATEmix (inhalation-dust/mist) 99,999.00 mg/l

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|------------------------|--------------------------|-------------------------|
| bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE | = 11300 µL/kg (Rat) | = 20000 mg/kg (Rabbit) | - |
| BARIUM SULPHATE | = 307000 mg/kg (Rat) | - | - |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | = 17100 mg/kg (Rat) | > 4000 mg/kg (Rabbit) | - |
| C.I. PIGMENT VIOLET 19 | > 7500 mg/kg (Rat) | > 2000 mg/kg (Rat) | - |
| TITANIUM DIOXIDE | > 10000 mg/kg (Rat) | - | = 5.09 mg/L (Rat) 4 h |
| silica (quartz) | = 7900 mg/kg (Rat) | > 5000 mg/kg (Rabbit) | > 58.8 mg/L (Rat) 4 h |
| Trimethylolpropane | = 14100 mg/kg (Rat) | > 10000 mg/kg (Rabbit) | > 0.85 mg/L (Rat) 4 h |

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|--------------------|---|--|----------------------------|---|
| silica (quartz) | EC50: =440mg/L (72h, Pseudokirchneriella subcapitata) | LC50: =5000mg/L (96h, Brachydanio rerio) | - | EC50: =7600mg/L (48h, Ceriodaphnia dubia) |
| Trimethylolpropane | - | - | - | EC50: =13000mg/L (48h, Daphnia species) EC50: 10330 - 16360mg/L (48h, Daphnia magna) |

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

| Chemical name | Partition coefficient |
|--|-----------------------|
| bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE | 2.33 |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 3.77 |
| C.I. PIGMENT VIOLET 19 | 2.2 |
| Trimethylolpropane | -0.47 |

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

| Chemical name | PBT and vPvB assessment |
|--|---------------------------------|
| bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE | The substance is not PBT / vPvB |
| BARIUM SULPHATE | The substance is not PBT / vPvB |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | The substance is not PBT / vPvB |
| C.I. PIGMENT VIOLET 19 | The substance is not PBT / vPvB |
| TITANIUM DIOXIDE | The substance is not PBT / vPvB |
| silica (quartz) | The substance is not PBT / vPvB |
| Trimethylolpropane | The substance is not PBT / vPvB |

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Waste from residues/unused products**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Do not reuse empty containers.

SECTION 14: Transport information**IATA****14.1 UN number or ID number**

UN3082

14.2 UN proper shipping name

Environmentally hazardous substance, liquid, n.o.s.
(bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, Bisphenol F diglycidyl ether, reaction mass of isomers)

14.3 Transport hazard class(es)

9

14.4 Packing group

III

Description

UN3082, Environmentally hazardous substance, liquid, n.o.s.
(bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, Bisphenol F diglycidyl ether, reaction mass of isomers), 9, III

14.5 Environmental hazards

Yes

14.6 Special precautions for user**Special Provisions**

A97, A158, A197

ERG Code

9L

IMDG**14.1 UN number or ID number**

UN3082

14.2 UN proper shipping name

Environmentally hazardous substance, liquid, n.o.s.
(bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, Bisphenol F diglycidyl ether, reaction mass of isomers)

14.3 Transport hazard class(es)

9

14.4 Packing group

III

Description

UN3082, Environmentally hazardous substance, liquid, n.o.s.
(bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, Bisphenol F diglycidyl ether, reaction mass of isomers)

| | |
|---|--|
| | mass of isomers), 9, III, Marine pollutant |
| 14.5 Environmental hazards | Yes |
| 14.6 Special precautions for user | |
| Special Provisions | 274, 335, 969 |
| EmS-No. | F-A, S-F |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available |
| RID | |
| 14.1 UN number or ID number | UN3082 |
| 14.2 UN proper shipping name | Environmentally hazardous substance, liquid, n.o.s. (bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, Bisphenol F diglycidyl ether, reaction mass of isomers) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packing group | III |
| Description | UN3082, Environmentally hazardous substance, liquid, n.o.s. (bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, Bisphenol F diglycidyl ether, reaction mass of isomers), 9, III |
| 14.5 Environmental hazards | Yes |
| 14.6 Special precautions for user | |
| Special Provisions | 274, 335, 375, 601 |
| Classification code | M6 |
| ADR | |
| 14.1 UN number or ID number | UN3082 |
| 14.2 UN proper shipping name | Environmentally hazardous substance, liquid, n.o.s. (bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, Bisphenol F diglycidyl ether, reaction mass of isomers) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packing group | III |
| Description | UN3082, Environmentally hazardous substance, liquid, n.o.s. (bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, Bisphenol F diglycidyl ether, reaction mass of isomers), 9, III, (-) |
| 14.5 Environmental hazards | Yes |
| 14.6 Special precautions for user | |
| Special Provisions | 274, 335, 601, 375 |
| Classification code | M6 |
| Tunnel restriction code | (-) |
| ADN | |
| 14.1 UN number or ID number | UN3082 |
| 14.2 UN proper shipping name | Environmentally hazardous substance, liquid, n.o.s. (bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, Bisphenol F diglycidyl ether, reaction mass of isomers) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packing group | III |
| Description | UN3082, Environmentally hazardous substance, liquid, n.o.s. (bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, Bisphenol F diglycidyl ether, reaction mass of isomers), 9, III |
| 14.5 Environmental hazard | Yes |
| 14.6 Special precautions for user | |
| Special Provisions | 274, 335, 375, 601 |
| Classification code | M6 |
| Equipment Requirements | PP |

SECTION 15: Regulatory information

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

National regulations

France**Occupational Illnesses (R-463-3, France)**

| Chemical name | French RG number |
|-----------------------------------|------------------|
| silica (quartz) - 7631-86-9 | RG 25 |
| SILICA (CRYSTALLINE) - 14808-60-7 | RG 25 |

Chemical Prohibition Ordinance (ChemVerbotsV) Not applicable

TRGS 905 Not applicable

Netherlands**Carcinogenic, mutagenic and reproductive toxic effects**

| Chemical name | Netherlands - List of Carcinogens | Netherlands - List of Mutagens | Netherlands - List of Reproductive Toxins |
|-----------------------------------|-----------------------------------|--------------------------------|---|
| SILICA (CRYSTALLINE) - 14808-60-7 | Present | - | - |

Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018 Not applicable
Storage of Hazardous Material SC 10/12
WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20 Not applicable
Major Accidents Ordinance SR 814.012 Not applicable

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name | Restricted substance per REACH Annex XVII | Substance subject to authorization per REACH Annex XIV |
|---|---|--|
| bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE - 1675-54-3 | Use restricted. See entry 75. | - |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. - 68609-97-2 | Use restricted. See entry 75. | - |
| C.I. PIGMENT VIOLET 19 - 1047-16-1 | Use restricted. See entry 75. | - |
| TITANIUM DIOXIDE - 13463-67-7 | Use restricted. See entry 75. | - |

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable.

EU - Plant Protection Products (1107/2009/EC)

| Chemical name | EU - Plant Protection Products (1107/2009/EC) |
|-----------------------------------|---|
| silica (quartz) - 7631-86-9 | Plant protection agent |
| SILICA (CRYSTALLINE) - 14808-60-7 | Plant protection agent |

Biocidal Products Regulation (EU) No 528/2012 (BPR)

| Chemical name | Biocidal Products Regulation (EU) No 528/2012 (BPR) |
|-----------------------------|--|
| silica (quartz) - 7631-86-9 | Product-type 18: Insecticides, acaricides and products to control other arthropods |

International Inventories

| | |
|----------------------|--|
| TSCA | Contact supplier for inventory compliance status |
| DSL/NDL | Contact supplier for inventory compliance status |
| EINECS/ELINCS | Contact supplier for inventory compliance status |
| ENCS | Contact supplier for inventory compliance status |
| IECSC | Contact supplier for inventory compliance status |
| KECL | Contact supplier for inventory compliance status |
| PICCS | Contact supplier for inventory compliance status |
| AIIC | Contact supplier for inventory compliance status |
| NZIoC | Contact supplier for inventory compliance status |
| TCSI | Contact supplier for inventory compliance status |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing Chemicals Inventory
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals
TCSI - Taiwan Chemical Substance Inventory

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of any hazard and/or precautionary statements referred to under Sections 2-15**

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child
H372 - Causes damage to organs through prolonged or repeated exposure
H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: Exposure controls/personal protection

| | | | |
|---------|-----------------------------|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | Sk* | Skin designation |
| + | Sensitizers | | |

Classification procedure

| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
|---|--------------------|
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - vapor | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitization | Calculation method |
| Skin sensitization | Calculation method |
| Mutagenicity | Calculation method |
| Carcinogenicity | Calculation method |
| Reproductive toxicity | Calculation method |
| STOT - single exposure | Calculation method |
| STOT - repeated exposure | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
 European Chemicals Agency (ECHA) (ECHA_API)
 Environmental Protection Agency
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 National Institute of Technology and Evaluation (NITE)
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 U.S. National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

Revision date 11/12/2024

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**Disclaimer**

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End of Safety Data Sheet