



WEST & SENIOR LTD

Revision date 13-05-2025

# 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 TANGERINE PIGMENT  
**Product Code(s)** WS40528A  
**Safety data sheet number** 40180  
**Unique Formula Identifier (UFI)** 8M8K-V3X1-G005-NM0U  
**Pure substance/mixture** Mixture

Contains bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE; Bisphenol F diglycidyl ether, reaction mass of isomers; BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} ; 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

<b>Importer</b>	<b>Supplier</b>
WSEU LIMITED	West & Senior Ltd
The Penthouse Floor	Milltown Street
5 Lapps Quay	Radcliffe
Cork	Manchester
Ireland	M26 1WE
T12 RW7D	UK
For further information, please contact	

**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)

<b>Emergency Telephone - §45 - (EC)1272/2008</b>
<b>Europe</b>   112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

<b>Skin irritation</b>	Category 2 - (H315)
<b>Eye irritation</b>	Category 2 - (H319)

<b>Skin sensitization</b>	Category 1 - (H317)
<b>Reproductive toxicity</b>	Category 1B - (H360F)
<b>Hazardous to the aquatic environment - chronic</b>	Category 2 - (H411)

**2.2. Label elements**

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

**Signal word**

Danger

**Hazard statements**

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H360F - May damage fertility.

H411 - Toxic to aquatic life with long lasting effects.

EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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

P201 - Obtain special instructions before use.

P273 - Avoid release to the environment.

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

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P321 - Specific treatment (see supplemental first aid instructions on this label).

P391 - Collect spillage.

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

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

**2.3. Other hazards****Other hazards** Harmful to aquatic life.**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. (Index No.)	Classification according to Regulation (EC) No.	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)

					1272/2008 [CLP]			
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) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	Eye Irrit. 2 :: C>=5% Skin Irrit. 2 :: 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)	-	-	-
BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT}	25068-38-6	10-30%	01-21194566 19-26-0000	(603-074-00-8)	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)	Eye Irrit. 2 :: C>=5% Skin Irrit. 2 :: C>=5%	-	-
C.I. PIGMENT YELLOW 83	5567-15-7	10-30%	01-21194754 84-30-0000	226-939-8	No data available	-	-	-
TITANIUM DIOXIDE	13463-67-7	5-10%	01-21194893 79-17-0000	236-675-5	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) Repr. 1B (H360F)	-	-	-
BARIUM SULPHATE	7727-43-7	1-5%	01-21194912 74-35-0001	231-784-4 (056-002-00-7)	No data available	-	-	-
CARBON BLACK	1333-86-4	<1%	01-21193848 22-32-0000	215-609-9	No data available	-	-	-
Trimethylolpropane	77-99-6	<1%	01-21194867 99-10-0000	201-074-9	Repr. 2 (H361fd)	-	-	-
Fumed silica (generic)	112945-52-5	<1%	No data available	-	No data available	-	-	-
SILICA (CRYSTALLINE)	14808-60-7	<0.01%	No data available	238-878-4	No data available	-	-	-

**Full text of H- and EUH-phrases: see section 16**Acute 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 (ATEmix) 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-EPOXYPROP	11266.1	20000	No data available	No data available	No data available

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
OXY)PHENYL]PROPANE 1675-54-3					
BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} 25068-38-6	11400	No data available	No data available	No data available	No data available
C.I. PIGMENT YELLOW 83 5567-15-7	15000	3000	No data available	No data available	No data available
TITANIUM DIOXIDE 13463-67-7	10000	No data available	5.0951	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
BARIUM SULPHATE 7727-43-7	307000	No data available	No data available	No data available	No data available
CARBON BLACK 1333-86-4	15400	2000	0.0046	No data available	No data available
Trimethylolpropane 77-99-6	14100	10000	No data available	No data available	No data available
Fumed silica (generic) 112945-52-5	3160	No data available	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 YELLOW 83 (5567-15-7)

Name of (set of) nanoform(s)	Particle characteristics	Value	Method
Pigment Yellow 83	Particle size distribution - d10	10-51 nm	No information available
Pigment Yellow 83	Particle size distribution - d50	30-82 nm	No information available
Pigment Yellow 83	Particle size distribution - d90	30-140 nm	No information available

##### CARBON BLACK (1333-86-4)

Name of (set of) nanoform(s)	Particle characteristics	Value	Method
solid: nanoform, surface-treated	Particle size distribution - d10	7-29 nm	No information available
solid: nanoform, surface-treated	Particle size distribution - d50	10-50 nm	No information available
solid: nanoform, surface-treated	Particle size distribution - d90	15-85 nm	No information available

#### Additional information

This mixture contains  $\geq 1\%$  Titanium Dioxide (CAS 13463-67-7) The Annex VI classification of Titanium Dioxide does not apply to this mixture according to its Note 10.

## 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.

<b>Skin contact</b>	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.
<b>Ingestion</b>	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
<b>Self-protection of the first aider</b>	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**

<b>Symptoms</b>	Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.
<b>Effects of Exposure</b>	May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility.

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

<b>Note to physicians</b>	May cause sensitization in susceptible persons. Treat symptomatically.
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### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.

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

<b>Specific hazards arising from the chemical</b>	Product is or contains a sensitizer. May cause sensitization by skin contact.
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#### **5.3. Advice for firefighters**

<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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### **SECTION 6: Accidental release measures**

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

<b>Personal precautions</b>	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.
<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.

#### **6.2. Environmental precautions**

<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so.
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#### **6.3. Methods and material for containment and cleaning up**

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

**6.4. Reference to other sections**

<b>Reference to other sections</b>	See section 8 for more information. See section 13 for more information.
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**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

<b>Advice on safe handling</b>	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. Remove contaminated clothing and shoes.
<b>General hygiene considerations</b>	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

**7.2. Conditions for safe storage, including any incompatibilities**

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.
<b>Storage class (TRGS 510)</b>	Storage class 6.1C.

**7.3. Specific end use(s)**

<b>Risk Management Methods (RMM)</b>	No information available.
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**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} 25068-38-6	-	-	-	TWA: 1.0 mg/m <sup>3</sup> ;	-
TITANIUM DIOXIDE 13463-67-7	-	TWA-TMW: 5 mg/m <sup>3</sup> ; alveolar dust, respirable fraction STEL-KZGW: 10 mg/m <sup>3</sup> (2 X 60 min); alveolar dust, respirable fraction	TWA: 10 mg/m <sup>3</sup> ;	TWA: 10.0 mg/m <sup>3</sup> ; respirable dust	TWA-GVI: 10 mg/m <sup>3</sup> ; total dust, inhalable particles TWA-GVI: 4 mg/m <sup>3</sup> ; respirable dust
BARIUM SULPHATE 7727-43-7	-	-	TWA: 5 mg/m <sup>3</sup> ;	TWA: 10.0 mg/m <sup>3</sup> ;	TWA-GVI: 10 mg/m <sup>3</sup> ; total dust, inhalable particles

					TWA-GVI: 4 mg/m <sup>3</sup> ; respirable dust
CARBON BLACK 1333-86-4	-	-	TWA: 3 mg/m <sup>3</sup>	-	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>
Fumed silica (generic) 112945-52-5	-	TWA: 4 mg/m <sup>3</sup>	-	-	-
SILICA (CRYSTALLINE) 14808-60-7	TWA: 0.1 mg/m <sup>3</sup> ;	TWA-TMW: 0.05 mg/m <sup>3</sup> ; alveolar dust, respirable fraction	TWA: 0.1 mg/m <sup>3</sup> ; alveolar dust TWA: 0.05 mg/m <sup>3</sup> ;	TWA: 0.1 mg/m <sup>3</sup> ; respirable fraction	TWA-GVI: 0.1 mg/m <sup>3</sup> ; respirable dust; respirable particle
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
TITANIUM DIOXIDE 13463-67-7	-	-	TWA: 6 mg/m <sup>3</sup> ; STEL: 12 mg/m <sup>3</sup> ;	TWA: 5 mg/m <sup>3</sup> ;	-
CARBON BLACK 1333-86-4	-	TWA: 2.0 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>
Fumed silica (generic) 112945-52-5	-	TWA: 0.1 mg/m <sup>3</sup> TWA: 4.0 mg/m <sup>3</sup>	-	TWA: 2 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
SILICA (CRYSTALLINE) 14808-60-7	TWA: 0.1 mg/m <sup>3</sup> ; respirable dust fraction	TWA: 0.1 mg/m <sup>3</sup> ; dust	TWA: 0.3 mg/m <sup>3</sup> ; total TWA: 0.1 mg/m <sup>3</sup> ; respirable STEL: 0.6 mg/m <sup>3</sup> ; total STEL: 0.2 mg/m <sup>3</sup> ; respirable	TWA: 0.1 mg/m <sup>3</sup> ; inhalable dust	TWA: 0.05 mg/m <sup>3</sup> ; respirable dust
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE 1675-54-3	-	-	skin sensitizer	-	-
C.I. PIGMENT YELLOW 83 5567-15-7	-	-	TWA: 0.3 mg/m <sup>3</sup> Peak: 2.4 mg/m <sup>3</sup>	-	-
TITANIUM DIOXIDE 13463-67-7	TWA-VME: 10 mg/m <sup>3</sup> ;	TWA-AGW; 1.25 mg/m <sup>3</sup> (exposure factor 2); respirable fraction TWA-AGW; 10 mg/m <sup>3</sup> (exposure factor 2); inhalable fraction	TWA-MAK: 0.3 mg/m <sup>3</sup> ; I(8);respira ble fraction Peak: 2.4 mg/m <sup>3</sup> ; respirable fraction	TWA: 10 mg/m <sup>3</sup> ; inhalable fraction TWA: 5 mg/m <sup>3</sup> ; respirable fraction	-
BARIUM SULPHATE 7727-43-7	-	TWA-AGW; 1.25 mg/m <sup>3</sup> (exposure factor 2); respirable fraction TWA-AGW; 10 mg/m <sup>3</sup> (exposure factor 2); inhalable fraction	TWA-MAK: 0.3 mg/m <sup>3</sup> ; I(8);respira ble fraction TWA-MAK: 4 mg/m <sup>3</sup> ; inhalable fraction Peak: 2.4 mg/m <sup>3</sup> ; respirable fraction	-	-
CARBON BLACK 1333-86-4	TWA: 3.5 mg/m <sup>3</sup>	-	-	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>
Fumed silica (generic) 112945-52-5	-	TWA: 4 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup> Peak: 0.16 mg/m <sup>3</sup>	-	-
SILICA (CRYSTALLINE) 14808-60-7	TWA-VME: 0.1 mg/m <sup>3</sup> ; alveolar fraction	-	-	TWA: 0.1 mg/m <sup>3</sup> ; respirable dust fraction	TWA-AK: 0.1 mg/m <sup>3</sup> ; respirable fraction
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
TITANIUM DIOXIDE 13463-67-7	TWA: 10 mg/m <sup>3</sup> ; total inhalable dust TWA: 4 mg/m <sup>3</sup> ; respirable dust	-	TWA: 10 mg/m <sup>3</sup> ;	TWA: 10 mg/m <sup>3</sup> ;	TWA-IPRD: 5 mg/m <sup>3</sup> ;

	STEL: 30 mg/m <sup>3</sup> (calculated); respirable dust STEL: 12 mg/m <sup>3</sup> (calculated);				
BARIUM SULPHATE 7727-43-7	TWA: 5 mg/m <sup>3</sup> ; respirable dust STEL: 15 mg/m <sup>3</sup> (calculated); respirable dust	-	TWA: 5 mg/m <sup>3</sup> ; inhalable fraction	-	-
CARBON BLACK 1333-86-4	TWA: 3 mg/m <sup>3</sup> STEL: 15 mg/m <sup>3</sup>	-	TWA: 3 mg/m <sup>3</sup>	-	-
Trimethylolpropane 77-99-6	-	-	-	-	Ceiling: 5 ppm
Fumed silica (generic) 112945-52-5	TWA: 6 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup> STEL: 18 mg/m <sup>3</sup> STEL: 7.2 mg/m <sup>3</sup>	-	-	TWA: 1 mg/m <sup>3</sup>	-
SILICA (CRYSTALLINE) 14808-60-7	TWA: 0.1 mg/m <sup>3</sup> ; respirable dust STEL: 0.3 mg/m <sup>3</sup> ;	TWA: 0.1 mg/m <sup>3</sup> ; respirable fraction	TWA: 0.025 mg/m <sup>3</sup> ; respirable fraction	-	TWA-IPRD: 0.1 ppm; respirable fraction
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
TITANIUM DIOXIDE 13463-67-7	-	-	-	TWA: 5 mg/m <sup>3</sup> ; STEL: 10 mg/m <sup>3</sup> (value calculated);	TWA-NDS: 10 mg/m <sup>3</sup> ; inhalable fraction STEL-NDSCh: 30 mg/m <sup>3</sup> ;
BARIUM SULPHATE 7727-43-7	-	-	-	TWA: 0.5 mg/m <sup>3</sup> ; STEL: 1.5 mg/m <sup>3</sup> (except Barium sulfate;value calculated);	-
CARBON BLACK 1333-86-4	-	-	-	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup>
Fumed silica (generic) 112945-52-5	-	-	-	TWA: 1.5 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	-
SILICA (CRYSTALLINE) 14808-60-7	-	-	TWA: 0.075 mg/m <sup>3</sup> ; respirable fraction	TWA: 0.05 mg/m <sup>3</sup> ; respirable dust TWA: 0.3 mg/m <sup>3</sup> ; total dust STEL: 0.9 mg/m <sup>3</sup> (value calculated;dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula. At the same time, the values for Nuisance dust must be observed); total dust STEL: 0.15 mg/m <sup>3</sup> (value calculated;dust containing .alpha.-Quartz,	TWA-NDS: 0.1 mg/m <sup>3</sup> ; respirable fraction

				Cristobalite and/or Tridymite is evaluated by summation formula. At the same time, the values for Nuisance dust must be observed); respirable dust	
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
TITANIUM DIOXIDE 13463-67-7	TWA (VLE-MP): 10 mg/m <sup>3</sup> ;	TWA: 10 mg/m <sup>3</sup> ; STEL: 15 mg/m <sup>3</sup> ;	TWA: 5 mg/m <sup>3</sup> ;	-	TWA-(VLA-ED): 10 mg/m <sup>3</sup> ;
BARIUM SULPHATE 7727-43-7	TWA (VLE-MP): 5 mg/m <sup>3</sup> ; inhalable fraction	-	TWA: 4 mg/m <sup>3</sup> ; inhalable fraction TWA: 1.5 mg/m <sup>3</sup> ; respirable fraction	-	TWA-(VLA-ED): 10 mg/m <sup>3</sup> ;
CARBON BLACK 1333-86-4	TWA: 3 mg/m <sup>3</sup>	-	TWA: 2 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	-	TWA: 3.5 mg/m <sup>3</sup>
Fumed silica (generic) 112945-52-5	-	-	-	TWA: 4 mg/m <sup>3</sup>	-
SILICA (CRYSTALLINE) 14808-60-7	TWA (VLE-MP): 0.025 mg/m <sup>3</sup> ; respirable fraction	TWA: 0.1 mg/m <sup>3</sup> ; dust, respirable fraction	TWA: 0.1 mg/m <sup>3</sup> ; STEL: 0.5 mg/m <sup>3</sup> ;	TWA: 0.05 mg/m <sup>3</sup> ; respirable fraction	TWA-(VLA-ED): 0.05 mg/m <sup>3</sup> ; respirable fraction
Chemical name	Sweden		Switzerland	United Kingdom	
TITANIUM DIOXIDE 13463-67-7	TLV-NGV: 5 mg/m <sup>3</sup> ; total dust		TWA-MAK: 3 mg/m <sup>3</sup> ; respirable dust TWA-MAK: 10 mg/m <sup>3</sup> ; inhalable dust	TWA: 10 mg/m <sup>3</sup> ; total inhalable TWA: 4 mg/m <sup>3</sup> ; respirable STEL: 30 mg/m <sup>3</sup> ; total inhalable STEL: 12 mg/m <sup>3</sup> ; respirable	
BARIUM SULPHATE 7727-43-7	-		TWA-MAK: 3 mg/m <sup>3</sup> ; respirable dust TWA-MAK: 10 mg/m <sup>3</sup> ; inhalable dust	TWA: 10 mg/m <sup>3</sup> ; inhalable dust TWA: 4 mg/m <sup>3</sup> ; respirable dust STEL: 30 mg/m <sup>3</sup> ; inhalable dust STEL: 12 mg/m <sup>3</sup> ; respirable dust	
CARBON BLACK 1333-86-4	NGV: 3 mg/m <sup>3</sup>		-	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	
Trimethylolpropane 77-99-6	NGV: 5 mg/m <sup>3</sup>		-	-	
Fumed silica (generic) 112945-52-5	-		TWA: 4 mg/m <sup>3</sup>	TWA: 6 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup> STEL: 18 mg/m <sup>3</sup> STEL: 7.2 mg/m <sup>3</sup>	
SILICA (CRYSTALLINE) 14808-60-7	TLV-NGV: 0.1 mg/m <sup>3</sup> ; respirable fraction		TWA-MAK: 0.15 mg/m <sup>3</sup> ; respirable dust	TWA: 0.1 mg/m <sup>3</sup> ; respirable fraction STEL: 0.3 mg/m <sup>3</sup> ; respirable	

#### Biological occupational exposure limits

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

#### 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 <sup>3</sup> [4] [6]
C.I. PIGMENT YELLOW 83 5567-15-7	-	45 mg/kg bw/day [4] [6]	3 mg/m <sup>3</sup> [5] [6]
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	-	1 mg/kg bw/day [4] [6]	3.6 mg/m <sup>3</sup> [4] [6]
CILLINEX DPP ORANGE 84632-59-7	-	-	3 mg/m <sup>3</sup> [5] [6]
BARIUM SULPHATE 7727-43-7	-	-	10 mg/m <sup>3</sup> [4] [6] 10 mg/m <sup>3</sup> [5] [6]
CARBON BLACK 1333-86-4	-	-	1 mg/m <sup>3</sup> [4] [6] 0.5 mg/m <sup>3</sup> [5] [6]
Trimethylolpropane 77-99-6	-	0.94 mg/kg bw/day [4] [6]	3.3 mg/m <sup>3</sup> [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 <sup>3</sup> [4] [6]
C.I. PIGMENT YELLOW 83 5567-15-7	28 mg/kg bw/day [4] [6]	28 mg/kg bw/day [4] [6]	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	0.5 mg/kg bw/day [4] [6]	-	0.87 mg/m <sup>3</sup> [4] [6]
BARIUM SULPHATE 7727-43-7	13000 mg/kg bw/day [4] [6]	-	10 mg/m <sup>3</sup> [4] [6]
CARBON BLACK 1333-86-4	-	-	0.06 mg/m <sup>3</sup> [4] [6]
Trimethylolpropane 77-99-6	0.34 mg/kg bw/day [4] [6]	-	0.58 mg/m <sup>3</sup> [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	-
TITANIUM DIOXIDE 13463-67-7	0.127 mg/l	0.61 mg/l	1 mg/l	0.61 mg/l	-
oxirane,	0.1058 mg/L	0.072 mg/L	0.01058 mg/L	-	-

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2					
BARIUM SULPHATE 7727-43-7	115 µg/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
TITANIUM DIOXIDE 13463-67-7	1000 mg/kg sediment dw	100 mg/kg sediment dw	100 mg/L	100 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	-
CILLINEX DPP ORANGE 84632-59-7	-	-	1 mg/L	-	-
BARIUM SULPHATE 7727-43-7	600.4 mg/kg sediment dw	-	62.2 mg/L	207.7 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.

#### Skin and body protection

Wear suitable protective clothing. Long sleeved clothing.

#### Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Use appropriate respiratory protection.

#### General hygiene considerations

Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. 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

<b>Appearance</b>	Coloured paste, Liquid, or
<b>Physical state</b>	Liquid
<b>Color</b>	orange
<b>Odor</b>	Slight
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point / freezing point</b>	No data available	None known
<b>Boiling point or initial boiling point and boiling range</b>	No data available	None known
<b>Flammability</b>	No data available	None known
<b>Lower and upper explosion limit/flammability limit</b>		None known
<b>Lower explosion limit</b>	No data available	
<b>Upper explosion limit</b>	No data available	
<b>Flash point</b>	150 °C	None known
<b>Autoignition temperature</b>	1929 - 400 °C	(ASTM D 1929) 400°C
<b>Decomposition temperature</b>		None known
<b>SADT (°C)</b>	No data available	None known
<b>pH</b>	No data available	None known
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Solubility</b>	No data available	None known
<b>Water solubility</b>	No data available	None known
<b>Partition coefficient n-octanol/water (log value)</b>	No data available	None known
<b>Vapor pressure</b>	No data available	None known
<b>Density and/or relative density</b>	No data available	None known
<b>Bulk density</b>	No data available	
<b>Liquid Density</b>	No data available	
<b>Relative vapor density</b>	No data available	None known
<b>Particle characteristics</b>		
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	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** This product contains a diaryl pigment. This product should not be used if the processing temperature exceeds 200°C because of possible thermal decomposition, which can, with prolonged exposure or further increased temperature, form e.g. traces of aromatic amines. 3,3'-Dichloro-benzidine.

## **SECTION 11: Toxicological information**

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

#### Information on likely routes of exposure

##### Product Information

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
<b>Skin contact</b>	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.
<b>Ingestion</b>	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.

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

#### Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral)	60,488.50 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

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE	= 11300 µL/kg ( Rat )	= 20000 mg/kg ( Rabbit )	-
BISPHENOL A-(EPICHLORHYDRIN) {	= 11400 mg/kg ( Rat )	-	-

REACTION PRODUCT}			
C.I. PIGMENT YELLOW 83	> 15000 mg/kg ( Rat )	> 3000 mg/kg ( Rat )	-
TITANIUM DIOXIDE	> 2000 mg/kg ( Rat )	-	> 5.09 mg/L ( Rat ) 4 h
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	= 17100 mg/kg ( Rat )	> 4000 mg/kg ( Rabbit )	-
BARIUM SULPHATE	= 307000 mg/kg ( Rat )	-	-
CARBON BLACK	> 15400 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	> 4.6 mg/m <sup>3</sup> ( Rat ) 4 h
Trimethylolpropane	= 14100 mg/kg ( Rat )	> 10000 mg/kg ( Rabbit )	> 0.85 mg/L ( Rat ) 4 h
Fumed silica (generic)	= 3160 mg/kg ( Rat )	-	-

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

<b>Skin corrosion/irritation</b>	Classification based on data available for ingredients. Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Classification based on data available for ingredients. Causes serious eye irritation.
<b>Respiratory or skin sensitization</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	Carbon black is not suitable to be tested directly in bacterial (Ames test) and other in vitro systems because of its insolubility. However, when organic solvent extracts of carbon black have been tested, results showed no mutagenic effects. Organic solvent extracts of carbon black can contain traces of polycyclic aromatic hydrocarbons (PAHs). A study to examine the bioavailability of these PAHs showed that they are very tightly bound to carbon black and are not bioavailable (Borm, 2005). In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black (Driscoll, 1997). This observation is considered to be rat-specific and a consequence of "lung overload," which leads to chronic inflammation and release of reactive oxygen species. This is considered to be a secondary genotoxic effect and, thus, carbon black itself would not be considered to be mutagenic.
<b>Carcinogenicity</b>	In 2006 IARC re-affirmed its 1995 finding that there is "inadequate evidence" from human health studies to assess whether carbon black causes cancer in humans. IARC concluded that there is "sufficient evidence" in experimental animal studies for the carcinogenicity of carbon black. IARC's overall evaluation is that carbon black is "possibly carcinogenic to humans (Group 2B)". This conclusion was based on IARC's guidelines, which generally require such a classification if one species exhibits carcinogenicity in two or more animal studies (IARC, 2010). Solvent extracts of carbon black were used in one study of rats in which skin tumors were found after dermal application and several studies of mice in which sarcomas were found following subcutaneous injection. IARC concluded that there was "sufficient evidence" that carbon black extracts can cause cancer in animals (Group 2B).
<b>Reproductive toxicity</b>	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.
<b>STOT - single exposure</b>	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. Harmful to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
C.I. PIGMENT YELLOW 83	-	LC50: >100mg/L (96h, Danio rerio)	-	-
Trimethylolpropane	-	-	-	EC50: =13000mg/L (48h, Daphnia species) EC50: 10330 - 16360mg/L (48h, Daphnia magna)
Fumed silica (generic)	EC50: =440mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =5000mg/L (96h, Brachydanio rerio)	-	EC50: =7600mg/L (48h, Ceriodaphnia dubia)

### 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
C.I. PIGMENT YELLOW 83	0.02
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3.77
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	Not PBT/vPvB
BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT}	Not PBT/vPvB
C.I. PIGMENT YELLOW 83	Not PBT/vPvB
TITANIUM DIOXIDE	Not PBT/vPvB
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Not PBT/vPvB
BARIUM SULPHATE	Not PBT/vPvB
CARBON BLACK	Not PBT/vPvB
Trimethylolpropane	Not PBT/vPvB

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**12.7. Other adverse effects**

No information available.

**PMT or vPvM properties**

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

**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**

<b>14.1 UN number or ID number</b>	UN3082
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, Bisphenol F diglycidyl ether, reaction mass of isomers)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing group</b>	III
<b>14.5 Environmental hazards</b>	Yes
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	A97, A158, A197, A215
<b>ERG Code</b>	9L
<b>Description</b>	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

**IMDG**

<b>14.1 UN number or ID number</b>	UN3082
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, Bisphenol F diglycidyl ether, reaction mass of isomers)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing group</b>	III
<b>14.5 Environmental hazards</b>	Yes
<b>Marine pollutant indicator</b>	P
<b>Marine pollutant name</b>	bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, Bisphenol F diglycidyl ether, reaction mass of isomers
<b>14.6 Special precautions for user</b>	

<b>Special Provisions</b>	274, 335, 375, 969
<b>EmS-No.</b>	F-A, S-F
<b>Description</b>	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, Marine pollutant

#### 14.7 Maritime transport in bulk according to IMO instruments

#### RID

<b>14.1 UN number or ID number</b>	UN3082
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, Bisphenol F diglycidyl ether, reaction mass of isomers)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing group</b>	III
<b>Description</b>	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
<b>14.5 Environmental hazards</b>	Yes
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	274, 335, 375, 601, 650
<b>Classification code</b>	M6

#### ADR

<b>14.1 UN number or ID number</b>	UN3082
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, Bisphenol F diglycidyl ether, reaction mass of isomers)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing group</b>	III
<b>Description</b>	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, (-)
<b>14.5 Environmental hazards</b>	Yes
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	274, 335, 375, 601, 650
<b>Classification code</b>	M6
<b>Tunnel restriction code</b>	(-)

#### ADN

<b>14.1 UN number or ID number</b>	UN3082
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, Bisphenol F diglycidyl ether, reaction mass of isomers)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing group</b>	III
<b>Description</b>	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
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	274, 335, 375, 601, 650
<b>Classification code</b>	M6
<b>Equipment Requirements</b>	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
CARBON BLACK - 1333-86-4	RG 16, RG 16bis
SILICA (CRYSTALLINE) - 14808-60-7	RG 25

Germany

**Chemical Prohibition Ordinance (ChemVerbotsV)** This product is subject to requirements and restrictions regarding handling and delivery

Chemical name	ANNEX I
SILICA (CRYSTALLINE) 14808-60-7	1.2

**TA Luft (German Air Pollution Control Regulation)**

Chemical name	Number	Class
SILICA (CRYSTALLINE)	5.2.7.1.1	-

**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	-	-

Switzerland

**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.	-
BISPHENOL A-(EPICHLORHYDRIN) { REACTION PRODUCT} - 25068-38-6	75	-
C.I. PIGMENT YELLOW 83 - 5567-15-7	Use restricted. See entry 75.	-
TITANIUM DIOXIDE - 13463-67-7	75	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. - 68609-97-2	Use restricted. See entry 75.	-
CARBON BLACK - 1333-86-4	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)
CARBON BLACK - 1333-86-4	Plant protection agent
Fumed silica (generic) - 112945-52-5	Plant protection agent
SILICA (CRYSTALLINE) - 14808-60-7	Plant protection agent

**Explosives Precursors Marketing and Use (2019/1148)**

Not applicable

**International Inventories**

<b>TSCA</b>	Contact supplier for inventory compliance status
<b>DSL/NDSL</b>	Contact supplier for inventory compliance status
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status
<b>ENCS</b>	Contact supplier for inventory compliance status
<b>IECSC</b>	Contact supplier for inventory compliance status
<b>KECL</b>	Contact supplier for inventory compliance status
<b>PICCS</b>	Contact supplier for inventory compliance status
<b>AIIC</b>	Contact supplier for inventory compliance status
<b>NZIoC</b>	Contact supplier for inventory compliance status
<b>TCSI</b>	Contact supplier for inventory compliance status

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - 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  
 H360F - May damage fertility  
 H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child  
 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)  
 Australian Industrial Chemicals Introduction Scheme (AICIS)  
 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

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

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**End of Safety Data Sheet**