



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 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; 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	Supplier
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)

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.

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

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]	1675-54-3	30-60%	01-21194566 19-26-0000	(603-073-00-2)	Aquatic Chronic 2	Eye Irrit. 2 :: C>=5%	-	-

PROPANE				216-823-5	(H411) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	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)	-	-	-
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)	-	-	-
BARIUM SULPHATE	7727-43-7	1-5%	01-21194912 74-35-0001	231-784-4	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)	-	-	-
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)	-	-	-

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 (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 OXY)PHENYL]PROPANE 1675-54-3	11266.1	20000	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	5.09	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

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
Trimethylolpropane 77-99-6	14100	10000	No data available	No data available	No data available
silica (quartz) 7631-86-9	7900	5000	58.8	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.
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.
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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
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
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
CARBON BLACK 1333-86-4	-	-	TWA: 3 mg/m ³	-	TWA: 3.5 mg/m ³ STEL: 7 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	-
CARBON BLACK 1333-86-4	-	TWA: 2.0 mg/m ³	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3 mg/m ³	TWA: 3.5 mg/m ³ STEL: 7 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	-	-
C.I. PIGMENT YELLOW 83 5567-15-7	-	-	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	-
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	-	-
CARBON BLACK	TWA: 3.5 mg/m ³	-	-	TWA: 3.5 mg/m ³	TWA: 3 mg/m ³

1333-86-4				STEL: 7 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
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
BARIUM SULPHATE 7727-43-7	TWA: 5 mg/m ³ STEL: 15 mg/m ³	-	TWA: 5 mg/m ³	-	-
CARBON BLACK 1333-86-4	TWA: 3 mg/m ³ STEL: 15 mg/m ³	-	TWA: 3 mg/m ³	-	-
Trimethylolpropane 77-99-6	-	-	-	-	Ceiling: 5 ppm
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
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
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
BARIUM SULPHATE 7727-43-7	-	-	-	TWA: 0.5 mg/m ³ STEL: 1.5 mg/m ³	-
CARBON BLACK 1333-86-4	-	-	-	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 4 mg/m ³
silica (quartz) 7631-86-9	-	-	-	TWA: 1.5 mg/m ³ STEL: 3 mg/m ³	TWA: 10 mg/m ³ TWA: 2 mg/m ³
SILICA (CRYSTALLINE) 14808-60-7	-	-	TWA: 0.075 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: 0.1 mg/m ³
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
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
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
CARBON BLACK 1333-86-4	TWA: 3 mg/m ³	-	TWA: 2 mg/m ³ TWA: 10 mg/m ³	-	TWA: 3.5 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
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
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
CARBON BLACK	NGV: 3 mg/m ³		-		TWA: 3.5 mg/m ³

1333-86-4			STEL: 7 mg/m ³
Trimethylolpropane 77-99-6	NGV: 5 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

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]
C.I. PIGMENT YELLOW 83 5567-15-7	-	45 mg/kg bw/day [4] [6]	3 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]
CILLINEX DPP ORANGE 84632-59-7	-	-	3 mg/m ³ [5] [6]
BARIUM SULPHATE 7727-43-7	-	-	10 mg/m ³ [4] [6] 10 mg/m ³ [5] [6]
CARBON BLACK 1333-86-4	-	-	1 mg/m ³ [4] [6] 0.5 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]
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 ³ [4] [6]
BARIUM SULPHATE 7727-43-7	13000 mg/kg bw/day [4] [6]	-	10 mg/m ³ [4] [6]
CARBON BLACK	-	-	0.06 mg/m ³ [4] [6]

Chemical name	Oral	Dermal	Inhalation
1333-86-4			
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	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	0.1058 mg/L	0.072 mg/L	0.01058 mg/L	-	-
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
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. 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	orange
Odor	Slight
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
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 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**

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)	-
C.I. PIGMENT YELLOW 83	> 15000 mg/kg (Rat)	> 3000 mg/kg (Rat)	-
TITANIUM DIOXIDE	> 10000 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 ³ (Rat) 4 h
Trimethylolpropane	= 14100 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 0.85 mg/L (Rat) 4 h
silica (quartz)	= 7900 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 58.8 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

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.

Carcinogenicity

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).

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
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)
silica (quartz)	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	The substance is not PBT / vPvB
C.I. PIGMENT YELLOW 83	The substance is not PBT / vPvB
TITANIUM DIOXIDE	The substance is not PBT / vPvB
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	The substance is not PBT / vPvB
BARIUM SULPHATE	The substance is not PBT / vPvB
CARBON BLACK	The substance is not PBT / vPvB
Trimethylolpropane	The substance is not PBT / vPvB
silica (quartz)	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), 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)

14.5 Environmental hazard	mass of isomers), 9, III
14.6 Special precautions for user	Yes
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
CARBON BLACK - 1333-86-4	RG 16, RG 16bis
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.	-
C.I. PIGMENT YELLOW 83 - 5567-15-7	Use restricted. See entry 75.	-
TITANIUM DIOXIDE - 13463-67-7	Use restricted. See entry 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
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
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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)

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End of Safety Data Sheet