

# WESSEX

RESINS+ADHESIVES

## SAFETY DATA SHEET WEST SYSTEM 501 WHITE PIGMENT

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

#### 1.1. Product identifier

**Product name** WEST SYSTEM 501 WHITE PIGMENT

**Product number** 501

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

**Identified uses** Resin.

**Uses advised against** No specific uses advised against are identified.

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** Wessex Resins & Adhesives  
Cupernham House  
Cupernham Lane  
Romsey  
Hampshire  
S051 7LF  
Tel: +44(0)1794 521111  
Fax: +44(0)1794 521271  
info@wessex-resins.com

#### 1.4. Emergency telephone number

**Emergency telephone** +44(0)207 858 1228

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

**Physical hazards** Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

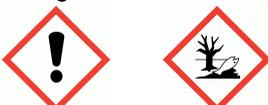
**Environmental hazards** Aquatic Chronic 2 - H411

**Human health** The liquid is irritating to eyes and skin. The product contains a sensitising substance. See Section 11 for additional information on health hazards.

**Environmental** The product contains a substance which may have hazardous effects on the environment.

#### 2.2. Label elements

##### Pictogram



## WEST SYSTEM 501 WHITE PIGMENT

<b>Signal word</b>	Warning
<b>Hazard statements</b>	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.
<b>Precautionary statements</b>	P102 Keep out of reach of children. P273 Avoid release to the environment. P280 Wear protective gloves, eye and face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations.
<b>Contains</b>	bis-[4-(2,3-epoxipropoxy)phenyl]propane, oxirane, mono[(C12-14-alkyloxy)methyl] derivs., BISPHENOL F EPOXY RESIN
<b>Supplementary precautionary statements</b>	P261 Avoid breathing vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>bis-[4-(2,3-epoxipropoxy)phenyl]propane</b>	<b>30-60%</b>
CAS number: 1675-54-3	EC number: 216-823-5
	REACH registration number: 01-2119456619-26-XXXX
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
<b>BISPHENOL F EPOXY RESIN</b>	<b>5-10%</b>
CAS number: 9003-36-5	EC number: 500-006-8
	REACH registration number: 01-2119454392-40-0000
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	

## WEST SYSTEM 501 WHITE PIGMENT

<b>oxirane, mono[(C12-14-alkyloxy)methyl] derivs.</b>	<b>5-10%</b>
CAS number: 68609-97-2	EC number: 271-846-8
	REACH registration number: 01-2119485289-22-0004
<b>Classification</b>	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
<b>Skin contact</b>	It is important to remove the substance from the skin immediately. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue. If it is suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

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

<b>General information</b>	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Prolonged inhalation of high concentrations may damage respiratory system.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.
<b>Eye contact</b>	Irritating to eyes.

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

## WEST SYSTEM 501 WHITE PIGMENT

**Notes for the doctor** Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** Containers can burst violently or explode when heated, due to excessive pressure build-up.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

#### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

### SECTION 6: Accidental release measures

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

**Personal precautions** No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

#### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. For waste disposal, see Section 13.

#### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## WEST SYSTEM 501 WHITE PIGMENT

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

**Advice on general occupational hygiene** Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from light.

**Storage class** Miscellaneous hazardous material storage.

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

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

**Ingredient comments** No exposure limits known for ingredient(s).

#### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants.

##### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166.

##### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. Wear protective gloves made of the following material: Nitrile rubber. Thickness:  $\geq 0.13$  mm. The selected gloves should have a breakthrough time of at least 0.5 hours.

##### Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

## WEST SYSTEM 501 WHITE PIGMENT

<b>Hygiene measures</b>	Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Warn cleaning personnel of any hazardous properties of the product.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Combination filter, type A2/P2.
<b>Environmental exposure controls</b>	Avoid discharge to the aquatic environment. Keep container tightly sealed when not in use.

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Viscous liquid. Creamy liquid.
<b>Colour</b>	White.
<b>Odour</b>	Mild.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	Not determined.
<b>Melting point</b>	Not determined.
<b>Initial boiling point and range</b>	Not determined.
<b>Flash point</b>	> 100°C Closed cup.
<b>Evaporation rate</b>	Not determined.
<b>Evaporation factor</b>	Not determined.
<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Vapour pressure</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	1.15 @ 20°C
<b>Bulk density</b>	Not determined.
<b>Solubility(ies)</b>	Slightly soluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	Not determined.
<b>Explosive properties</b>	Not determined.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

#### 9.2. Other information

<b>Other information</b>	Not known.
--------------------------	------------

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

## WEST SYSTEM 501 WHITE PIGMENT

**Reactivity** There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None known.

### 10.4. Conditions to avoid

**Conditions to avoid** There are no known conditions that are likely to result in a hazardous situation.

### 10.5. Incompatible materials

**Materials to avoid** Strong acids. Strong alkalis. Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

**Animal data** Irritating.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye irritation.

#### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

#### Skin sensitisation

**Skin sensitisation** May cause skin sensitisation or allergic reactions in sensitive individuals.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Based on available data the classification criteria are not met.

#### Carcinogenicity

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

#### IARC carcinogenicity

None of the ingredients are listed or exempt.

#### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Based on available data the classification criteria are not met.

## WEST SYSTEM 501 WHITE PIGMENT

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

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

### **General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

### **Inhalation**

Prolonged inhalation of high concentrations may damage respiratory system.

### **Ingestion**

May cause sensitisation or allergic reactions in sensitive individuals. May cause irritation.

### **Skin contact**

May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.

### **Eye contact**

Irritating to eyes.

### **Route of exposure**

Ingestion Inhalation Skin and/or eye contact

### **Target organs**

No specific target organs known.

### **Medical considerations**

Skin disorders and allergies.

### Toxicological information on ingredients.

#### bis-[4-(2,3-epoxypropoxy)phenyl]propane

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** > 2000 mg/kg Rat REACH dossier information. Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** > 2000 mg/kg Rat REACH dossier information. Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

#### **Animal data**

Dose: 0.5ml, 4 hr, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema score: Very slight oedema - barely perceptible (1). REACH dossier information. Irritating to skin.

#### Skin sensitisation

#### **Skin sensitisation**

Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information. May cause sensitisation by skin contact.

#### Germ cell mutagenicity

#### **Genotoxicity - in vitro**

Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

#### **Genotoxicity - in vivo**

Chromosome aberration: Negative. REACH dossier information. This substance has no evidence of mutagenic properties.

#### Carcinogenicity

#### **Carcinogenicity**

NOAEL 100 mg/kg, Oral, Rat REACH dossier information. There is no evidence that the product can cause cancer.

## WEST SYSTEM 501 WHITE PIGMENT

### Reproductive toxicity

**Reproductive toxicity - fertility** Two-generation study - NOAEL 20 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Maternal toxicity: - NOAEL: 180 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEL 50 mg/kg, Oral, Rat REACH dossier information. Not classified as a specific target organ toxicant after repeated exposure.

### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 26,800.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** REACH dossier information.

**ATE oral (mg/kg)** 26,800.0

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> > 4000 mg/kg, Dermal, Rabbit REACH dossier information.

### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> > 0.15 mg/l, Inhalation, Rat 7 hours REACH dossier information.

### Skin corrosion/irritation

**Animal data** Dose: , 24 hr, Rabbit Primary dermal irritation index: 4.08 REACH dossier information. Irritating.

### Serious eye damage/irritation

**Serious eye damage/irritation** May cause temporary eye irritation.

### Skin sensitisation

**Skin sensitisation** Buehler test: - Guinea pig: Sensitising. REACH dossier information. May cause sensitisation by skin contact.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Chromosome aberration: Negative. REACH dossier information. This substance has no evidence of mutagenic properties.

### Reproductive toxicity

**Reproductive toxicity - fertility** Screening: - NOAEL 200 mg/kg/day, Dermal, Rat P REACH dossier information. Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Developmental toxicity: - NOAEL: 200 mg/kg/day, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

## WEST SYSTEM 501 WHITE PIGMENT

**STOT - repeated exposure** NOAEL > 1 mg/kg, Dermal, Rat Estimated value. REACH dossier information. Not classified as a specific target organ toxicant after repeated exposure.

### SECTION 12: Ecological Information

**Ecotoxicity** Dangerous for the environment if discharged into watercourses.

#### 12.1. Toxicity

**Toxicity** Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

#### Ecological information on ingredients.

##### bis-[4-(2,3-epoxipropoxy)phenyl]propane

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 1.2 mg/l, Oncorhynchus mykiss (Rainbow trout)  
REACH dossier information.

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 2.8 mg/l, Daphnia magna  
REACH dossier information.

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 9.4 mg/l, Selenastrum capricornutum  
REACH dossier information.

**Acute toxicity - microorganisms** IC<sub>50</sub>, 3 hours >: 100 mg/l, Activated sludge  
REACH dossier information.

##### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: > 5000 mg/l, Oncorhynchus mykiss (Rainbow trout)  
REACH dossier information.

**Acute toxicity - aquatic plants** NOEC, 72 hours: 500 mg/l, Selenastrum capricornutum  
REACH dossier information.

#### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

#### Ecological information on ingredients.

##### bis-[4-(2,3-epoxipropoxy)phenyl]propane

**Phototransformation** Water - DT<sub>50</sub> : 6.44 hours  
Estimated value.  
REACH dossier information.

**Biodegradation** Water - Degradation (%) 5: 28 days  
REACH dossier information.  
No biodegradation observed under test conditions.

##### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**Biodegradation** Water - Degradation (%) 87: 28 days  
REACH dossier information.  
The substance is readily biodegradable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

## WEST SYSTEM 501 WHITE PIGMENT

**Partition coefficient** Not determined.

### Ecological information on ingredients.

#### bis-[4-(2,3-epoxipropoxy)phenyl]propane

**Bioaccumulative potential** The product is not bioaccumulating. BCF: ~ 31, Estimated value. REACH dossier information.

**Partition coefficient** log Pow:  $\geq 2.918$  REACH dossier information.

#### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**Bioaccumulative potential** The product is not bioaccumulating. BCF: ~ 263, Estimated value. REACH dossier information.

**Partition coefficient** log Pow: 3.77 REACH dossier information.

### 12.4. Mobility in soil

**Mobility** No information available.

### Ecological information on ingredients.

#### bis-[4-(2,3-epoxipropoxy)phenyl]propane

**Mobility** Slightly soluble in water.

**Adsorption/desorption coefficient** Water - log Koc: ~ 2.65 @ 20°C Estimated value. REACH dossier information.

**Surface tension** 58.7 mN/m @ 20°C REACH dossier information.

#### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**Mobility** Slightly soluble in water.

**Adsorption/desorption coefficient** Water - log Koc: > 5.63 @ 20°C

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Ecological information on ingredients.

#### bis-[4-(2,3-epoxipropoxy)phenyl]propane

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

## WEST SYSTEM 501 WHITE PIGMENT

### 13.1. Waste treatment methods

**General information** The generation of waste should be minimised or avoided wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

**Disposal methods** Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible. Do not discharge into drains or watercourses or onto the ground.

### SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
UN No. (ADN)	3082

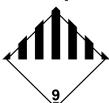
#### 14.2. UN proper shipping name

<b>Proper shipping name (ADR/RID)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS bis-[4-(2,3-epoxipropoxy)phenyl]propane, BISPHENOL F EPOXY RESIN)
<b>Proper shipping name (IMDG)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS bis-[4-(2,3-epoxipropoxy)phenyl]propane, BISPHENOL F EPOXY RESIN)
<b>Proper shipping name (ICAO)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS bis-[4-(2,3-epoxipropoxy)phenyl]propane, BISPHENOL F EPOXY RESIN)
<b>Proper shipping name (ADN)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS bis-[4-(2,3-epoxipropoxy)phenyl]propane, BISPHENOL F EPOXY RESIN)

#### 14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III

## WEST SYSTEM 501 WHITE PIGMENT

ADN packing group III

ICAO packing group III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS F-A, S-F

ADR transport category 3

Emergency Action Code •3Z

Hazard Identification Number (ADR/RID) 90

Tunnel restriction code (-)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

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

**National regulations** Health and Safety at Work etc. Act 1974 (as amended).  
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].  
EH40/2005 Workplace exposure limits.

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
Commission Regulation (EU) No 2015/830 of 28 May 2015.  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

## WEST SYSTEM 501 WHITE PIGMENT

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>CAS: Chemical Abstracts Service.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</p> <p>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>EC<sub>50</sub>: 50% of maximal Effective Concentration.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
<b>Classification abbreviations and acronyms</b>	<p>Eye Irrit. = Eye irritation</p> <p>Skin Irrit. = Skin irritation</p> <p>Skin Sens. = Skin sensitisation</p> <p>Aquatic Chronic = Hazardous to the aquatic environment (chronic)</p>
<b>Key literature references and sources for data</b>	<p>Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a></p>
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	<p>Skin Irrit. 2 - H315: Eye Irrit. 2 - H319: Skin Sens. 1 - H317: : Expert judgement. Aquatic Chronic 2 - H411: : Expert judgement.</p>
<b>Training advice</b>	<p>Read and follow manufacturer's recommendations. Only trained personnel should use this material.</p>
<b>Revision date</b>	14/11/2018
<b>Revision</b>	4
<b>Supersedes date</b>	24/05/2018
<b>SDS number</b>	10103
<b>Hazard statements in full</b>	<p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

# WESSEX

RESINS+ADHESIVES

## SAFETY DATA SHEET WEST SYSTEM 502 BLACK PIGMENT

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

#### 1.1. Product identifier

**Product name** WEST SYSTEM 502 BLACK PIGMENT

**Product number** 502

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

**Identified uses** Resin.

**Uses advised against** No specific uses advised against are identified.

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** Wessex Resins & Adhesives  
Cupernham House  
Cupernham Lane  
Romsey  
Hampshire  
S051 7LF  
Tel: +44(0)1794 521111  
Fax: +44(0)1794 521271  
info@wessex-resins.com

#### 1.4. Emergency telephone number

**Emergency telephone** +44(0)207 858 1228

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

**Physical hazards** Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

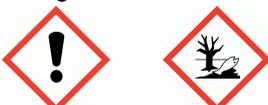
**Environmental hazards** Aquatic Chronic 2 - H411

**Human health** The liquid is irritating to eyes and skin. The product contains a sensitising substance. See Section 11 for additional information on health hazards.

**Environmental** The product contains a substance which may have hazardous effects on the environment.

#### 2.2. Label elements

##### Pictogram



## WEST SYSTEM 502 BLACK PIGMENT

<b>Signal word</b>	Warning
<b>Hazard statements</b>	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.
<b>Precautionary statements</b>	P102 Keep out of reach of children. P273 Avoid release to the environment. P280 Wear protective gloves, eye and face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/ container in accordance with national regulations.
<b>Contains</b>	bis-[4-(2,3-epoxipropoxy)phenyl]propane, BISPHENOL F EPOXY RESIN, oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
<b>Supplementary precautionary statements</b>	P261 Avoid breathing vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>bis-[4-(2,3-epoxipropoxy)phenyl]propane</b>	<b>30-60%</b>
CAS number: 1675-54-3	EC number: 216-823-5
	REACH registration number: 01-2119456619-26-XXXX
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
<b>BISPHENOL F EPOXY RESIN</b>	<b>10-30%</b>
CAS number: 9003-36-5	EC number: 500-006-8
	REACH registration number: 01-2119454392-40-0000
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	

## WEST SYSTEM 502 BLACK PIGMENT

<b>oxirane, mono[(C12-14-alkyloxy)methyl] derivs.</b>	<b>10-30%</b>
CAS number: 68609-97-2	EC number: 271-846-8
	REACH registration number: 01-2119485289-22-0004
<b>Classification</b>	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
<b>Skin contact</b>	It is important to remove the substance from the skin immediately. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue. If it is suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

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

<b>General information</b>	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Prolonged inhalation of high concentrations may damage respiratory system.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.
<b>Eye contact</b>	Irritating to eyes.

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

## WEST SYSTEM 502 BLACK PIGMENT

**Notes for the doctor** Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** Containers can burst violently or explode when heated, due to excessive pressure build-up.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

#### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

### SECTION 6: Accidental release measures

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

**Personal precautions** No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

#### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. For waste disposal, see Section 13.

#### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## WEST SYSTEM 502 BLACK PIGMENT

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

##### Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

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

##### Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from light.

##### Storage class

Miscellaneous hazardous material storage.

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

##### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

##### Ingredient comments

No exposure limits known for ingredient(s).

#### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants.

##### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166.

##### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. Wear protective gloves made of the following material: Nitrile rubber. Thickness:  $\geq 0.13$  mm. The selected gloves should have a breakthrough time of at least 0.5 hours.

##### Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

## WEST SYSTEM 502 BLACK PIGMENT

<b>Hygiene measures</b>	Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Warn cleaning personnel of any hazardous properties of the product.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Combination filter, type A2/P2.
<b>Environmental exposure controls</b>	Avoid discharge to the aquatic environment. Keep container tightly sealed when not in use.

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Viscous liquid. Creamy liquid.
<b>Colour</b>	Black.
<b>Odour</b>	Mild.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	Not determined.
<b>Melting point</b>	Not determined.
<b>Initial boiling point and range</b>	Not determined.
<b>Flash point</b>	> 100°C Closed cup.
<b>Evaporation rate</b>	Not determined.
<b>Evaporation factor</b>	Not determined.
<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Vapour pressure</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	1.15 @ 20°C
<b>Bulk density</b>	Not determined.
<b>Solubility(ies)</b>	Slightly soluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	Not determined.
<b>Explosive properties</b>	Not determined.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

#### 9.2. Other information

<b>Other information</b>	Not known.
--------------------------	------------

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

## WEST SYSTEM 502 BLACK PIGMENT

**Reactivity** There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None known.

### 10.4. Conditions to avoid

**Conditions to avoid** There are no known conditions that are likely to result in a hazardous situation.

### 10.5. Incompatible materials

**Materials to avoid** Strong acids. Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

**Animal data** Irritating.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye irritation.

#### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

#### Skin sensitisation

**Skin sensitisation** May cause skin sensitisation or allergic reactions in sensitive individuals.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Based on available data the classification criteria are not met.

#### Carcinogenicity

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

#### IARC carcinogenicity

None of the ingredients are listed or exempt.

#### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Based on available data the classification criteria are not met.

## WEST SYSTEM 502 BLACK PIGMENT

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

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

### **General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

### **Inhalation**

Prolonged inhalation of high concentrations may damage respiratory system.

### **Ingestion**

May cause sensitisation or allergic reactions in sensitive individuals. May cause irritation.

### **Skin contact**

May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.

### **Eye contact**

Irritating to eyes.

### **Route of exposure**

Ingestion Inhalation Skin and/or eye contact

### **Target organs**

No specific target organs known.

### **Medical considerations**

Skin disorders and allergies.

### Toxicological information on ingredients.

#### bis-[4-(2,3-epoxypropoxy)phenyl]propane

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** > 2000 mg/kg Rat REACH dossier information. Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** > 2000 mg/kg Rat REACH dossier information. Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

#### **Animal data**

Dose: 0.5ml, 4 hr, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema score: Very slight oedema - barely perceptible (1). REACH dossier information. Irritating to skin.

#### Skin sensitisation

#### **Skin sensitisation**

Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information. May cause sensitisation by skin contact.

#### Germ cell mutagenicity

#### **Genotoxicity - in vitro**

Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

#### **Genotoxicity - in vivo**

Chromosome aberration: Negative. REACH dossier information. This substance has no evidence of mutagenic properties.

#### Carcinogenicity

#### **Carcinogenicity**

NOAEL 100 mg/kg, Oral, Rat REACH dossier information. There is no evidence that the product can cause cancer.

## WEST SYSTEM 502 BLACK PIGMENT

### Reproductive toxicity

**Reproductive toxicity - fertility** Two-generation study - NOAEL 20 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Maternal toxicity: - NOAEL: 180 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEL 50 mg/kg, Oral, Rat REACH dossier information. Not classified as a specific target organ toxicant after repeated exposure.

### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 26,800.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** REACH dossier information.

**ATE oral (mg/kg)** 26,800.0

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> > 4000 mg/kg, Dermal, Rabbit REACH dossier information.

### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> > 0.15 mg/l, Inhalation, Rat 7 hours REACH dossier information.

### Skin corrosion/irritation

**Animal data** Dose: , 24 hr, Rabbit Primary dermal irritation index: 4.08 REACH dossier information. Irritating.

### Serious eye damage/irritation

**Serious eye damage/irritation** May cause temporary eye irritation.

### Skin sensitisation

**Skin sensitisation** Buehler test: - Guinea pig: Sensitising. REACH dossier information. May cause sensitisation by skin contact.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Chromosome aberration: Negative. REACH dossier information. This substance has no evidence of mutagenic properties.

### Reproductive toxicity

**Reproductive toxicity - fertility** Screening: - NOAEL 200 mg/kg/day, Dermal, Rat P REACH dossier information. Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Developmental toxicity: - NOAEL: 200 mg/kg/day, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

## WEST SYSTEM 502 BLACK PIGMENT

**STOT - repeated exposure** NOAEL > 1 mg/kg, Dermal, Rat Estimated value. REACH dossier information. Not classified as a specific target organ toxicant after repeated exposure.

### SECTION 12: Ecological Information

**Ecotoxicity** Dangerous for the environment if discharged into watercourses.

#### 12.1. Toxicity

**Toxicity** Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

#### Ecological information on ingredients.

##### bis-[4-(2,3-epoxipropoxy)phenyl]propane

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 1.2 mg/l, Oncorhynchus mykiss (Rainbow trout)  
REACH dossier information.

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 2.8 mg/l, Daphnia magna  
REACH dossier information.

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 9.4 mg/l, Selenastrum capricornutum  
REACH dossier information.

**Acute toxicity - microorganisms** IC<sub>50</sub>, 3 hours >: 100 mg/l, Activated sludge  
REACH dossier information.

##### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: > 5000 mg/l, Oncorhynchus mykiss (Rainbow trout)  
REACH dossier information.

**Acute toxicity - aquatic plants** NOEC, 72 hours: 500 mg/l, Selenastrum capricornutum  
REACH dossier information.

#### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

#### Ecological information on ingredients.

##### bis-[4-(2,3-epoxipropoxy)phenyl]propane

**Phototransformation** Water - DT<sub>50</sub> : 6.44 hours  
Estimated value.  
REACH dossier information.

**Biodegradation** Water - Degradation (%) 5: 28 days  
REACH dossier information.  
No biodegradation observed under test conditions.

##### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**Biodegradation** Water - Degradation (%) 87: 28 days  
REACH dossier information.  
The substance is readily biodegradable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

## WEST SYSTEM 502 BLACK PIGMENT

**Partition coefficient** Not determined.

### Ecological information on ingredients.

#### bis-[4-(2,3-epoxipropoxy)phenyl]propane

**Bioaccumulative potential** The product is not bioaccumulating. BCF: ~ 31, Estimated value. REACH dossier information.

**Partition coefficient** log Pow:  $\geq 2.918$  REACH dossier information.

#### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**Bioaccumulative potential** The product is not bioaccumulating. BCF: ~ 263, Estimated value. REACH dossier information.

**Partition coefficient** log Pow: 3.77 REACH dossier information.

### 12.4. Mobility in soil

**Mobility** No information available.

### Ecological information on ingredients.

#### bis-[4-(2,3-epoxipropoxy)phenyl]propane

**Mobility** Slightly soluble in water.

**Adsorption/desorption coefficient** Water - log Koc: ~ 2.65 @ 20°C Estimated value. REACH dossier information.

**Surface tension** 58.7 mN/m @ 20°C REACH dossier information.

#### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**Mobility** Slightly soluble in water.

**Adsorption/desorption coefficient** Water - log Koc: > 5.63 @ 20°C

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Ecological information on ingredients.

#### bis-[4-(2,3-epoxipropoxy)phenyl]propane

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

## WEST SYSTEM 502 BLACK PIGMENT

### 13.1. Waste treatment methods

#### **General information**

The generation of waste should be minimised or avoided wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

#### **Disposal methods**

Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible. Do not discharge into drains or watercourses or onto the ground.

### SECTION 14: Transport information

#### 14.1. UN number

<b>UN No. (ADR/RID)</b>	3082
<b>UN No. (IMDG)</b>	3082
<b>UN No. (ICAO)</b>	3082
<b>UN No. (ADN)</b>	3082

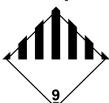
#### 14.2. UN proper shipping name

<b>Proper shipping name (ADR/RID)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS bis-[4-(2,3-epoxipropoxi)phenyl]propane, BISPHENOL F EPOXY RESIN)
<b>Proper shipping name (IMDG)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS bis-[4-(2,3-epoxipropoxi)phenyl]propane, BISPHENOL F EPOXY RESIN)
<b>Proper shipping name (ICAO)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS bis-[4-(2,3-epoxipropoxi)phenyl]propane, BISPHENOL F EPOXY RESIN)
<b>Proper shipping name (ADN)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS bis-[4-(2,3-epoxipropoxi)phenyl]propane, BISPHENOL F EPOXY RESIN)

#### 14.3. Transport hazard class(es)

<b>ADR/RID class</b>	9
<b>ADR/RID classification code</b>	M6
<b>ADR/RID label</b>	9
<b>IMDG class</b>	9
<b>ICAO class/division</b>	9
<b>ADN class</b>	9

#### **Transport labels**



#### 14.4. Packing group

<b>ADR/RID packing group</b>	III
<b>IMDG packing group</b>	III

## WEST SYSTEM 502 BLACK PIGMENT

ADN packing group III

ICAO packing group III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS F-A, S-F

ADR transport category 3

Emergency Action Code •3Z

Hazard Identification Number (ADR/RID) 90

Tunnel restriction code (-)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

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

**National regulations** Health and Safety at Work etc. Act 1974 (as amended).  
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].  
EH40/2005 Workplace exposure limits.

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
Commission Regulation (EU) No 2015/830 of 28 May 2015.  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

## WEST SYSTEM 502 BLACK PIGMENT

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>CAS: Chemical Abstracts Service.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</p> <p>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>EC<sub>50</sub>: 50% of maximal Effective Concentration.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
<b>Classification abbreviations and acronyms</b>	<p>Eye Irrit. = Eye irritation</p> <p>Skin Irrit. = Skin irritation</p> <p>Skin Sens. = Skin sensitisation</p> <p>Aquatic Chronic = Hazardous to the aquatic environment (chronic)</p>
<b>Key literature references and sources for data</b>	<p>Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a></p>
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	<p>Skin Irrit. 2 - H315: Eye Irrit. 2 - H319: Skin Sens. 1 - H317: : Expert judgement. Aquatic Chronic 2 - H411: : Expert judgement.</p>
<b>Training advice</b>	<p>Read and follow manufacturer's recommendations. Only trained personnel should use this material.</p>
<b>Revision date</b>	14/11/2018
<b>Revision</b>	4
<b>Supersedes date</b>	24/05/2018
<b>SDS number</b>	10364
<b>Hazard statements in full</b>	<p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

# WESSEX

RESINS+ADHESIVES

## SAFETY DATA SHEET WEST SYSTEM 505 BLUE PIGMENT

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

#### 1.1. Product identifier

**Product name** WEST SYSTEM 505 BLUE PIGMENT  
**Product number** 505

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

**Identified uses** Resin.  
**Uses advised against** No specific uses advised against are identified.

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** Wessex Resins & Adhesives  
Cupernham House  
Cupernham Lane  
Romsey  
Hampshire  
S051 7LF  
Tel: +44(0)1794 521111  
Fax: +44(0)1794 521271  
info@wessex-resins.com

#### 1.4. Emergency telephone number

**Emergency telephone** +44(0)207 858 1228

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

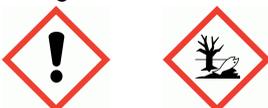
**Physical hazards** Not Classified  
**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317  
**Environmental hazards** Aquatic Chronic 2 - H411

**Human health** The liquid is irritating to eyes and skin. The product contains a sensitising substance. See Section 11 for additional information on health hazards.

**Environmental** The product contains a substance which may have hazardous effects on the environment.

#### 2.2. Label elements

##### Pictogram



## WEST SYSTEM 505 BLUE PIGMENT

<b>Signal word</b>	Warning
<b>Hazard statements</b>	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.
<b>Precautionary statements</b>	P102 Keep out of reach of children. P273 Avoid release to the environment. P280 Wear protective gloves, eye and face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/ container in accordance with national regulations.
<b>Contains</b>	bis-[4-(2,3-epoxipropoxy)phenyl]propane, oxirane, mono[(C12-14-alkyloxy)methyl] derivs., BISPHENOL F EPOXY RESIN
<b>Supplementary precautionary statements</b>	P261 Avoid breathing vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>bis-[4-(2,3-epoxipropoxy)phenyl]propane</b>	<b>30-60%</b>
CAS number: 1675-54-3	EC number: 216-823-5
	REACH registration number: 01-2119456619-26-XXXX
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
<b>BISPHENOL F EPOXY RESIN</b>	<b>10-30%</b>
CAS number: 9003-36-5	EC number: 500-006-8
	REACH registration number: 01-2119454392-40-0000
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	

## WEST SYSTEM 505 BLUE PIGMENT

<b>oxirane, mono[(C12-14-alkyloxy)methyl] derivs.</b>	<b>10-30%</b>
CAS number: 68609-97-2	EC number: 271-846-8
	REACH registration number: 01-2119485289-22-0004
<b>Classification</b>	
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
<b>Skin contact</b>	It is important to remove the substance from the skin immediately. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue. If it is suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

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

<b>General information</b>	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Prolonged inhalation of high concentrations may damage respiratory system.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.
<b>Eye contact</b>	Irritating to eyes.

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

## WEST SYSTEM 505 BLUE PIGMENT

**Notes for the doctor** Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** Containers can burst violently or explode when heated, due to excessive pressure build-up.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

#### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

### SECTION 6: Accidental release measures

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

**Personal precautions** No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

#### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. For waste disposal, see Section 13.

#### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## WEST SYSTEM 505 BLUE PIGMENT

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

##### Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

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

##### Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from light.

##### Storage class

Miscellaneous hazardous material storage.

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

##### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

##### Ingredient comments

No exposure limits known for ingredient(s).

#### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants.

##### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166.

##### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. Wear protective gloves made of the following material: Nitrile rubber. Thickness:  $\geq 0.13$  mm. The selected gloves should have a breakthrough time of at least 0.5 hours.

##### Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

## WEST SYSTEM 505 BLUE PIGMENT

<b>Hygiene measures</b>	Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Warn cleaning personnel of any hazardous properties of the product.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Combination filter, type A2/P2.
<b>Environmental exposure controls</b>	Avoid discharge to the aquatic environment. Keep container tightly sealed when not in use.

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Viscous liquid. Creamy liquid.
<b>Colour</b>	Blue.
<b>Odour</b>	Mild.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	Not determined.
<b>Melting point</b>	Not determined.
<b>Initial boiling point and range</b>	Not determined.
<b>Flash point</b>	> 100°C Closed cup.
<b>Evaporation rate</b>	Not determined.
<b>Evaporation factor</b>	Not determined.
<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Vapour pressure</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	1.15 @ 20°C
<b>Bulk density</b>	Not determined.
<b>Solubility(ies)</b>	Slightly soluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	Not determined.
<b>Explosive properties</b>	Not determined.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

#### 9.2. Other information

<b>Other information</b>	Not known.
--------------------------	------------

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

## WEST SYSTEM 505 BLUE PIGMENT

**Reactivity** There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None known.

### 10.4. Conditions to avoid

**Conditions to avoid** There are no known conditions that are likely to result in a hazardous situation.

### 10.5. Incompatible materials

**Materials to avoid** Strong acids. Strong alkalis. Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

**Animal data** Irritating.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye irritation.

#### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

#### Skin sensitisation

**Skin sensitisation** May cause skin sensitisation or allergic reactions in sensitive individuals.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Based on available data the classification criteria are not met.

#### Carcinogenicity

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

#### IARC carcinogenicity

None of the ingredients are listed or exempt.

#### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Based on available data the classification criteria are not met.

## WEST SYSTEM 505 BLUE PIGMENT

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

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

### **General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

### **Inhalation**

Prolonged inhalation of high concentrations may damage respiratory system.

### **Ingestion**

May cause sensitisation or allergic reactions in sensitive individuals. May cause irritation.

### **Skin contact**

May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.

### **Eye contact**

Irritating to eyes.

### **Route of exposure**

Ingestion Inhalation Skin and/or eye contact

### **Target organs**

No specific target organs known.

### **Medical considerations**

Skin disorders and allergies.

### Toxicological information on ingredients.

#### bis-[4-(2,3-epoxypropoxy)phenyl]propane

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** > 2000 mg/kg Rat REACH dossier information. Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** > 2000 mg/kg Rat REACH dossier information. Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

#### **Animal data**

Dose: 0.5ml, 4 hr, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema score: Very slight oedema - barely perceptible (1). REACH dossier information. Irritating to skin.

#### Skin sensitisation

#### **Skin sensitisation**

Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier information. May cause sensitisation by skin contact.

#### Germ cell mutagenicity

#### **Genotoxicity - in vitro**

Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

#### **Genotoxicity - in vivo**

Chromosome aberration: Negative. REACH dossier information. This substance has no evidence of mutagenic properties.

#### Carcinogenicity

#### **Carcinogenicity**

NOAEL 100 mg/kg, Oral, Rat REACH dossier information. There is no evidence that the product can cause cancer.

## WEST SYSTEM 505 BLUE PIGMENT

### Reproductive toxicity

**Reproductive toxicity - fertility** Two-generation study - NOAEL 20 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Maternal toxicity: - NOAEL: 180 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEL 50 mg/kg, Oral, Rat REACH dossier information. Not classified as a specific target organ toxicant after repeated exposure.

### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 26,800.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** REACH dossier information.

**ATE oral (mg/kg)** 26,800.0

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> > 4000 mg/kg, Dermal, Rabbit REACH dossier information.

### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> > 0.15 mg/l, Inhalation, Rat 7 hours REACH dossier information.

### Skin corrosion/irritation

**Animal data** Dose: , 24 hr, Rabbit Primary dermal irritation index: 4.08 REACH dossier information. Irritating.

### Serious eye damage/irritation

**Serious eye damage/irritation** May cause temporary eye irritation.

### Skin sensitisation

**Skin sensitisation** Buehler test: - Guinea pig: Sensitising. REACH dossier information. May cause sensitisation by skin contact.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Chromosome aberration: Negative. REACH dossier information. This substance has no evidence of mutagenic properties.

### Reproductive toxicity

**Reproductive toxicity - fertility** Screening: - NOAEL 200 mg/kg/day, Dermal, Rat P REACH dossier information. Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Developmental toxicity: - NOAEL: 200 mg/kg/day, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

## WEST SYSTEM 505 BLUE PIGMENT

**STOT - repeated exposure** NOAEL > 1 mg/kg, Dermal, Rat Estimated value. REACH dossier information. Not classified as a specific target organ toxicant after repeated exposure.

### SECTION 12: Ecological Information

**Ecotoxicity** Dangerous for the environment if discharged into watercourses.

#### 12.1. Toxicity

**Toxicity** Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

#### Ecological information on ingredients.

##### bis-[4-(2,3-epoxipropoxy)phenyl]propane

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 1.2 mg/l, Oncorhynchus mykiss (Rainbow trout)  
REACH dossier information.

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 2.8 mg/l, Daphnia magna  
REACH dossier information.

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 9.4 mg/l, Selenastrum capricornutum  
REACH dossier information.

**Acute toxicity - microorganisms** IC<sub>50</sub>, 3 hours >: 100 mg/l, Activated sludge  
REACH dossier information.

##### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: > 5000 mg/l, Oncorhynchus mykiss (Rainbow trout)  
REACH dossier information.

**Acute toxicity - aquatic plants** NOEC, 72 hours: 500 mg/l, Selenastrum capricornutum  
REACH dossier information.

#### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

#### Ecological information on ingredients.

##### bis-[4-(2,3-epoxipropoxy)phenyl]propane

**Phototransformation** Water - DT<sub>50</sub> : 6.44 hours  
Estimated value.  
REACH dossier information.

**Biodegradation** Water - Degradation (%) 5: 28 days  
REACH dossier information.  
No biodegradation observed under test conditions.

##### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**Biodegradation** Water - Degradation (%) 87: 28 days  
REACH dossier information.  
The substance is readily biodegradable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

## WEST SYSTEM 505 BLUE PIGMENT

**Partition coefficient** Not determined.

### Ecological information on ingredients.

#### bis-[4-(2,3-epoxipropoxy)phenyl]propane

**Bioaccumulative potential** The product is not bioaccumulating. BCF: ~ 31, Estimated value. REACH dossier information.

**Partition coefficient** log Pow:  $\geq 2.918$  REACH dossier information.

#### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**Bioaccumulative potential** The product is not bioaccumulating. BCF: ~ 263, Estimated value. REACH dossier information.

**Partition coefficient** log Pow: 3.77 REACH dossier information.

### 12.4. Mobility in soil

**Mobility** No information available.

### Ecological information on ingredients.

#### bis-[4-(2,3-epoxipropoxy)phenyl]propane

**Mobility** Slightly soluble in water.

**Adsorption/desorption coefficient** Water - log Koc: ~ 2.65 @ 20°C Estimated value. REACH dossier information.

**Surface tension** 58.7 mN/m @ 20°C REACH dossier information.

#### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**Mobility** Slightly soluble in water.

**Adsorption/desorption coefficient** Water - log Koc: > 5.63 @ 20°C

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Ecological information on ingredients.

#### bis-[4-(2,3-epoxipropoxy)phenyl]propane

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

## WEST SYSTEM 505 BLUE PIGMENT

### 13.1. Waste treatment methods

**General information** The generation of waste should be minimised or avoided wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

**Disposal methods** Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible. Do not discharge into drains or watercourses or onto the ground.

### SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
UN No. (ADN)	3082

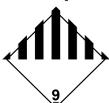
#### 14.2. UN proper shipping name

<b>Proper shipping name (ADR/RID)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS bis-[4-(2,3-epoxipropoxy)phenyl]propane, BISPHENOL F EPOXY RESIN)
<b>Proper shipping name (IMDG)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS bis-[4-(2,3-epoxipropoxy)phenyl]propane, BISPHENOL F EPOXY RESIN)
<b>Proper shipping name (ICAO)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS bis-[4-(2,3-epoxipropoxy)phenyl]propane, BISPHENOL F EPOXY RESIN)
<b>Proper shipping name (ADN)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS bis-[4-(2,3-epoxipropoxy)phenyl]propane, BISPHENOL F EPOXY RESIN)

#### 14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III

## WEST SYSTEM 505 BLUE PIGMENT

ADN packing group III

ICAO packing group III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS F-A, S-F

ADR transport category 3

Emergency Action Code •3Z

Hazard Identification Number (ADR/RID) 90

Tunnel restriction code (-)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

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

**National regulations** Health and Safety at Work etc. Act 1974 (as amended).  
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].  
EH40/2005 Workplace exposure limits.

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
Commission Regulation (EU) No 2015/830 of 28 May 2015.  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

## WEST SYSTEM 505 BLUE PIGMENT

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>CAS: Chemical Abstracts Service.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</p> <p>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>EC<sub>50</sub>: 50% of maximal Effective Concentration.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
<b>Classification abbreviations and acronyms</b>	<p>Eye Irrit. = Eye irritation</p> <p>Skin Irrit. = Skin irritation</p> <p>Skin Sens. = Skin sensitisation</p> <p>Aquatic Chronic = Hazardous to the aquatic environment (chronic)</p>
<b>Key literature references and sources for data</b>	<p>Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a></p>
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	<p>Skin Irrit. 2 - H315: Eye Irrit. 2 - H319: Skin Sens. 1 - H317: : Expert judgement. Aquatic Chronic 2 - H411: : Expert judgement.</p>
<b>Training advice</b>	<p>Read and follow manufacturer's recommendations. Only trained personnel should use this material.</p>
<b>Revision date</b>	14/11/2018
<b>Revision</b>	4
<b>Supersedes date</b>	24/05/2018
<b>SDS number</b>	10117
<b>Hazard statements in full</b>	<p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.