

SAFETY DATA SHEET WEST SYSTEM SIX 10 HARDENER

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 SIX 10 HARDENER

Product number 610B

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

Identified uses Hardener.

Uses advised againstNo 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 Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 3 - H412

Human health Corrosive to skin and eyes. 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 SIX 10 HARDENER

Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P102 Keep out of reach of children.

P273 Avoid release to the environment.

P280 Wear protective gloves, eye and face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/ doctor.

P501 Dispose of contents/ container in accordance with national regulations.

Contains Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia,

Butadiene-acrylonitrile co-polymer, Formaldehyde, oligomeric reaction products with phenol

and triethylenetetramine

Supplementary precautionary

statements

P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

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

Benzyl alcohol 10-30%

CAS number: 100-51-6 EC number: 202-859-9 REACH registration number: 01-

2119492630-38-XXXX

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H332 Eye Irrit. 2 - H319

Reaction products of di-, tri- and tetra-propoxylated propane-

10-30%

1,2-diol with ammonia

CAS number: 9046-10-0 EC number: 618-561-0 REACH registration number: 01-

2119557899-12-XXXX

Classification

Skin Corr. 1C - H314 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412

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Butadiene-acrylonitrile co-polymer 10-30%

CAS number: 68683-29-4 EC number: 614-706-7

Classification

Skin Sens. 1 - H317

Formaldehyde, oligomeric reaction products with phenol and

5-10%

triethylenetetramine

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412

Cashew, nutshell liq., reaction products with 1,3-

5-10%

benzenedimethanamine, formaldehyde, 1,3-pentanediamine

and tetraethylenepentamine

Classification

Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335

Phenol, 2,4,6-Tris[(dimethylamino)methyl] reaction products

1-5%

with TETA

CAS number: 1101788-77-5

Classification

Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

2-Hydroxyethyl ethers

1-5%

CAS number: 232268-65-4

Classification

Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335

Triethylenetetramine 1-5%

CAS number: 112-24-3 EC number: 203-950-6 REACH registration number: 01-

2119487919-13-0000

1-5%

Classification

Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412

4,4'-Isopropylidenediphenol, oligomeric reaction products

with 1-chloro-2,3-epoxypropane, reaction products with

diethylenetriamine

CAS number: 31326-29-1 EC number: 500-072-8

Classification

Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335

2-piperazin-1-ylethylamine <1%

CAS number: 140-31-8 EC number: 205-411-0 REACH registration number: 01-

2119471486-30-0003

Classification

Acute Tox. 4 - H302 Acute Tox. 3 - H311 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 - H361

Aquatic Chronic 3 - H412

STOT RE 1 - H372

Phenol <1%

CAS number: 108-95-2 EC number: 203-632-7 REACH registration number: 01-

2119471329-32-XXXX

Classification

Acute Tox. 3 - H301

Acute Tox. 3 - H311

Acute Tox. 3 - H331

Skin Corr. 1B - H314

Eye Dam. 1 - H318

Muta. 2 - H341 STOT RE 2 - H373

Aquatic Chronic 2 - H411

Diethylenetriamine			<1%
CAS number: 111-40-0	EC number: 203-865-4	REACH registration number: 01- 2119473793-27-XXXX	
Classification			
Acute Tox. 4 - H302			
Acute Tox. 4 - H312			
Acute Tox. 2 - H330			
Skin Corr. 1B - H314			
Eye Dam. 1 - H318			
Skin Sens. 1 - H317			
STOT SE 3 - H335			

m-phenylenebis(methylamine)

<1%

CAS number: 1477-55-0 EC number: 216-032-5 REACH registration number: 01-2119480150-50-XXXX

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1B - H317 Aquatic Chronic 3 - H412

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

Chemical burns must be treated by a physician.

Inhalation 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.

Ingestion 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.

Skin contact It is important to remove the substance from the skin immediately. Take off immediately all

 $contaminated \ clothing. \ Rinse \ immediately \ with \ plenty \ of \ water. \ Continue \ to \ rinse \ for \ at \ least$

15 minutes and get medical attention. Chemical burns must be treated by a physician.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 10 minutes.

Protection of first aiders

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

General information 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.

Inhalation A single exposure may cause the following adverse effects: Severe irritation of nose and

throat. Symptoms following overexposure may include the following: Corrosive to the

respiratory tract.

Ingestion May cause sensitisation or allergic reactions in sensitive individuals. May cause chemical

burns in mouth, oesophagus and stomach. Symptoms following overexposure may include

the following: Severe stomach pain. Nausea, vomiting.

Skin contact May cause skin sensitisation or allergic reactions in sensitive individuals. Causes severe

burns. Symptoms following overexposure may include the following: Pain or irritation.

Redness. Blistering may occur.

Eye contact Causes serious eye damage. Symptoms following overexposure may include the following:

Pain. Profuse watering of the eyes. Redness.

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

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 hazardsContainers can burst violently or explode when heated, due to excessive pressure build-up.

Severe corrosive hazard. Water used for fire extinguishing, which has been in contact with the

product, may be corrosive.

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. 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

Regular protection may not be safe. Wear chemical protective suit. 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 inhalation of vapours and spray/mists. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes. Avoid contact with contaminated tools and objects.

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. This product is corrosive. Approach the spillage from upwind. Small Spillages: Collect spillage. Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labelled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. The contaminated absorbent may pose the same hazard as the spilled material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

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.

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. This product is corrosive. Immediate first aid is imperative. 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. Keep separate from food, feedstuffs, fertilisers and other sensitive material. Protect from light. Store away from the following materials: Acids. Oxidising

materials.

Storage class Corrosive 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

Occupational exposure limits

Phenol

Long-term exposure limit (8-hour TWA): WEL 2 ppm 7.8 mg/m³ Short-term exposure limit (15-minute): WEL 4 ppm 16 mg/m³ Sk

Diethylenetriamine

Long-term exposure limit (8-hour TWA): WEL 1 ppm 4.3 mg/m³ Sk

WEL = Workplace Exposure Limit Sk = Can be absorbed through the skin.

8.2. Exposure controls

Protective equipment





Appropriate engineering controls

Provide adequate ventilation. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Wear chemical splash goggles. 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 gauntlets made of the following material: Nitrile rubber. Thickness: ≥ 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.

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Hygiene measures 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.

Respiratory protection 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.

Environmental exposure

controls

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

Appearance Viscous liquid.

Colour Colourless.

Odour Ammonia.

Odour threshold Not determined.

pH Not determined.

Melting point Not determined.

Initial boiling point and range >250°C @ 760 mm Hg

Flash point >93°C Closed cup.

Evaporation rate Not determined.

Evaporation factor Not determined.

Upper/lower flammability or

explosive limits

Not determined.

Vapour pressure <1 mm Hg @ °C

Vapour density >1

Relative density 1.04 @ 25°C

Bulk density Not determined.

Solubility(ies) Slightly soluble in water.

Partition coefficient Not determined.

Auto-ignition temperature Not determined.

Decomposition Temperature Not determined.

Viscosity >130,000 mPa s @ 25°C

Explosive properties Not determined.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information Not known.

SECTION 10: Stability and reactivity

10.1. Reactivity

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Reactivity Stable under the prescribed storage conditions.

None known.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Possibility of hazardous

uo

reactions

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 oxidising agents. Strong acids.

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: Toxic and corrosive gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 3,035.67

Acute toxicity - dermal

Notes (dermal LD50) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 8,834.19

Acute toxicity - inhalation

Notes (inhalation LC50) Based on available data the classification criteria are not met.

ATE inhalation (vapours mg/l) 475.71

ATE inhalation (dusts/mists 13

mg/l)

13.67

Skin corrosion/irritation

Animal data Skin Corr. 1B - H314 Causes severe burns.

Serious eye damage/irritation

Serious eye damage/irritation Eye Dam. 1 - H318 Corrosive to skin. Corrosivity to eyes is assumed.

Respiratory sensitisation

Respiratory sensitisationBased 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

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

IARC carcinogenicityNone 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.

Specific target organ toxicity - single exposure

STOT - single exposureNot 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 Corrosive to the respiratory tract. Symptoms following overexposure may include the

following: Severe irritation of nose and throat.

Ingestion May cause sensitisation or allergic reactions in sensitive individuals. May cause chemical

burns in mouth, oesophagus and stomach. Symptoms following overexposure may include

the following: Severe stomach pain. Nausea, vomiting.

Skin contact May cause skin sensitisation or allergic reactions in sensitive individuals. Causes severe

burns. Symptoms following overexposure may include the following: Pain or irritation.

Redness. Blistering may occur.

Eye contact Causes serious eye damage. Symptoms following overexposure may include the following:

Pain. Profuse watering of the eyes. Redness.

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.

Benzyl alcohol

Acute toxicity - oral

Acute toxicity oral (LD₅o

1,620.0

mg/kg)

Species Rat

Notes (oral LD₅₀) REACH dossier information. Harmful if swallowed.

ATE oral (mg/kg) 1,620.0

Acute toxicity - inhalation

Acute toxicity inhalation

3.297

(LC50 dust/mist mg/l)

Species Rat

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Notes (inhalation LC50) 4 hours, Aerosol., Rat REACH dossier information. Harmful if inhaled.

3.297

ATE inhalation

(dusts/mists mg/l)

Skin corrosion/irritation

Animal data Dose: 0.5ml, 4 hr, Rabbit Erythema/eschar score: No erythema (0). Oedema score:

No oedema (0). REACH dossier information. Not irritating.

Serious eye damage/irritation

Serious eye Dose: 0.1 ml, 24 hours, Rabbit Cornea score: 1 Iris score: 0 Conjunctivae score: 2

Chemosis score: 1 REACH dossier information. Causes serious eye irritation. damage/irritation

Skin sensitisation

Skin sensitisation Draize test: - Guinea pig: Not sensitising. REACH dossier information.

Germ cell mutagenicity

Genotoxicity - in vitro Chromosome aberration: Negative. REACH dossier information.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information.

Reproductive toxicity

Reproductive toxicity -Developmental toxicity: - NOAEL: 550 mg/kg/day, Oral, Mouse REACH dossier

development information.

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 NOAEL 400 mg/kg, Oral, Rat REACH dossier information.

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

2,885.3

Species Rat

Notes (oral LD₅₀) REACH dossier information.

ATE oral (mg/kg) 2,885.3

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,979.7

mg/kg)

Species Rabbit

Notes (dermal LD50) REACH dossier information.

ATE dermal (mg/kg) 2,979.7

Skin corrosion/irritation

Dose: 0.5ml, 4 hr, Rabbit Erythema/eschar score: Moderate to severe erythema (3). Animal data

REACH dossier information. Corrosive to skin.

Serious eye damage/irritation

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Serious eye Corrosive to skin. Corrosivity to eyes is assumed. No testing is needed.

damage/irritation

Germ cell mutagenicity

Genotoxicity - in vitroGene mutation: Negative. REACH dossier information.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information.

Reproductive toxicity

Reproductive toxicity -

Screening: - NOAEL 30 mg/kg/day, Dermal, Rat P REACH dossier information.

fertility

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 250 mg/kg, Oral, Rat REACH dossier information.

Butadiene-acrylonitrile co-polymer

Toxicological effects No information available.

Formaldehyde, oligomeric reaction products with phenol and triethylenetetramine

Toxicological effects No information available.

Cashew, nutshell liq., reaction products with 1,3-benzenedimethanamine, formaldehyde, 1,3-pentanediamine and tetraethylenepentamine

Toxicological effects No information available.

Phenol, 2,4,6-Tris[(dimethylamino)methyl] reaction products with TETA

Toxicological effects No information available.

2-Hydroxyethyl ethers

Toxicological effects No information available.

Triethylenetetramine

Toxicological effects No information available.

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with

diethylenetriamine

Toxicological effects No information available.

Diethylenetriamine

Acute toxicity - oral

Acute toxicity oral (LD50

1,553.0

mg/kg)

Species Rat

Notes (oral LD50) REACH dossier information. Harmful if swallowed.

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ATE oral (mg/kg) 1,553.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 1,052.0

mg/kg)

Species Rabbit

Notes (dermal LD₅₀) REACH dossier information. Harmful in contact with skin.

ATE dermal (mg/kg) 1,052.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l)

0.25

Rat **Species**

Notes (inhalation LC50) Data lacking.

ATE inhalation

0.25

(dusts/mists mg/l)

Skin corrosion/irritation

Animal data Corrosive to skin.

Serious eye damage/irritation

Serious eye

damage/irritation

Corrosive to skin. Corrosivity to eyes is assumed. No testing is needed.

Respiratory sensitisation

Respiratory sensitisation Mouse: Not sensitising. REACH dossier information. Based on available data the

classification criteria are not met.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - 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 Gene mutation: Negative. REACH dossier information. Based on available data the

classification criteria are not met.

Carcinogenicity

NOAEL > 56.3 mg/kg, Dermal, Mouse Estimated value. REACH dossier Carcinogenicity

information. There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity -

fertility

One-generation study - NOAEL 100 mg/kg/day, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: 30 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

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STOT - repeated exposure NOAEL 70 mg/kg, Oral, Rat 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 3 - H412 Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

Benzyl alcohol

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 460 mg/l, Pimephales promelas (Fat-head Minnow)

REACH dossier information.

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: 230 mg/l, Daphnia magna

REACH dossier information.

Acute toxicity - aquatic

EC₅₀, 72 hours: 770 mg/l, Freshwater algae

plants

REACH dossier information.

Acute toxicity - EC₅₀, 48 hours: 2100 mg/l, Activated sludge

microorganisms REACH dossier information.

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: > 15 mg/l, Oncorhynchus mykiss (Rainbow trout)

REACH dossier information.

Acute toxicity - aquatic

EC₅₀, 48 hours: 80 mg/l, Daphnia magna

invertebrates

REACH dossier information.

Acute toxicity - aquatic

EC₅₀, 72 hours: 15 mg/l, Freshwater algae

plants

REACH dossier information.

Acute toxicity -

EC₅o, 3 hours: 750 mg/l, Activated sludge

microorganisms

REACH dossier information.

Butadiene-acrylonitrile co-polymer

Toxicity There are no data on the ecotoxicity of this product.

Formaldehyde, oligomeric reaction products with phenol and triethylenetetramine

Toxicity There are no data on the ecotoxicity of this product.

Cashew, nutshell liq., reaction products with 1,3-benzenedimethanamine, formaldehyde, 1,3-pentanediamine

and tetraethylenepentamine

Toxicity There are no data on the ecotoxicity of this product.

Phenol, 2,4,6-Tris[(dimethylamino)methyl] reaction products with TETA

Toxicity There are no data on the ecotoxicity of this product.

2-Hydroxyethyl ethers

Toxicity There are no data on the ecotoxicity of this product.

Triethylenetetramine

Toxicity There are no data on the ecotoxicity of this product.

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with diethylenetriamine

Toxicity There are no data on the ecotoxicity of this product.

Diethylenetriamine

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 430 mg/l, Poecilia reticulata (Guppy)

REACH dossier information.

Acute toxicity - aquatic

EC₅₀, 72 hours: 1164 mg/l, Selenastrum capricornutum

plants

REACH dossier information.

Acute toxicity - EC₅₀, 3 hours: 32.7 mg/l, Activated sludge

microorganisms 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.

Benzyl alcohol

Biodegradation - Degradation (%) 92: 14 days

REACH dossier information.

The substance is readily biodegradable.

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia

Stability (hydrolysis) pH7 - Half-life: 1 year @ 25°C

REACH dossier information.

Biodegradation Water - Degradation (%) 0: 28 days

REACH dossier information.

No biodegradation observed under test conditions.

Butadiene-acrylonitrile co-polymer

Persistence and

degradability

There are no data on the degradability of this product.

Formaldehyde, oligomeric reaction products with phenol and triethylenetetramine

Persistence and

degradability

There are no data on the degradability of this product.

Cashew, nutshell liq., reaction products with 1,3-benzenedimethanamine, formaldehyde, 1,3-pentanediamine and tetraethylenepentamine

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Persistence and degradability

There are no data on the degradability of this product.

Phenol, 2,4,6-Tris[(dimethylamino)methyl] reaction products with TETA

Persistence and degradability

There are no data on the degradability of this product.

2-Hydroxyethyl ethers

Persistence and degradability

There are no data on the degradability of this product.

Triethylenetetramine

Persistence and degradability

There are no data on the degradability of this product.

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with

diethylenetriamine

Persistence and degradability

There are no data on the degradability of this product.

Diethylenetriamine

Phototransformation Water - DT₅₀ : 2.6 hours

Estimated value.

REACH dossier information.

Biodegradation Water - Degradation (%) 87: 21 days

REACH dossier information.

The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

Benzyl alcohol

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient log Pow: 1.1 REACH dossier information.

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Pow: 1.34 REACH dossier information.

Butadiene-acrylonitrile co-polymer

Bioaccumulative potential No data available on bioaccumulation.

Formaldehyde, oligomeric reaction products with phenol and triethylenetetramine

WEST SYSTEM SIX 10 HARDENER

Bioaccumulative potential No data available on bioaccumulation.

Cashew, nutshell liq., reaction products with 1,3-benzenedimethanamine, formaldehyde, 1,3-pentanediamine and tetraethylenepentamine

Bioaccumulative potential No data available on bioaccumulation.

Phenol, 2,4,6-Tris[(dimethylamino)methyl] reaction products with TETA

Bioaccumulative potential No data available on bioaccumulation.

2-Hydroxyethyl ethers

Bioaccumulative potential No data available on bioaccumulation.

Triethylenetetramine

Bioaccumulative potential No data available on bioaccumulation.

4,4'-lsopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with diethylenetriamine

Bioaccumulative potential No data available on bioaccumulation.

Diethylenetriamine

Bioaccumulative potential The product is not bioaccumulating. BCF: < 1.7, Cyprinus carpio (Common carp)

REACH dossier information.

Partition coefficient log Pow: -5.58 Estimated value. REACH dossier information.

12.4. Mobility in soil

Mobility No information available.

Ecological information on ingredients.

Benzyl alcohol

Mobility The product is soluble in water.

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia

Mobility The product contains volatile organic compounds (VOCs) which have a

photochemical ozone creation potential.

Butadiene-acrylonitrile co-polymer

Mobility No information available.

Formaldehyde, oligomeric reaction products with phenol and triethylenetetramine

Mobility No information available.

Cashew, nutshell liq., reaction products with 1,3-benzenedimethanamine, formaldehyde, 1,3-pentanediamine and tetraethylenepentamine

Mobility No information available.

Phenol, 2,4,6-Tris[(dimethylamino)methyl] reaction products with TETA

Mobility No information available.

2-Hydroxyethyl ethers

Mobility No information available.

Triethylenetetramine

Mobility No information available.

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with diethylenetriamine

Mobility No information available.

Diethylenetriamine

Mobility The product is soluble in water.

Adsorption/desorption

coefficient

Water - log Koc: < 4.6 @ 25°C REACH dossier information.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

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

assessment

Ecological information on ingredients.

Benzyl alcohol

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

Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia

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

Butadiene-acrylonitrile co-polymer

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

Formaldehyde, oligomeric reaction products with phenol and triethylenetetramine

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

Cashew, nutshell liq., reaction products with 1,3-benzenedimethanamine, formaldehyde, 1,3-pentanediamine and tetraethylenepentamine

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

Phenol, 2,4,6-Tris[(dimethylamino)methyl] reaction products with TETA

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

2-Hydroxyethyl ethers

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

Triethylenetetramine

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

4,4'-lsopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with diethylenetriamine

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

Diethylenetriamine

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

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

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.

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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. (ADN)

 UN No. (ADR/RID)
 2735

 UN No. (IMDG)
 2735

 UN No. (ICAO)
 2735

14.2. UN proper shipping name

Proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS polyoxypropyleneamine, Formaldehyde,

(ADR/RID) oligomeric reaction products with phenol and triethylenetetramine)

Proper shipping name (IMDG) AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS polyoxypropyleneamine, Formaldehyde,

oligomeric reaction products with phenol and triethylenetetramine)

Proper shipping name (ICAO) AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS polyoxypropyleneamine, Formaldehyde,

oligomeric reaction products with phenol and triethylenetetramine)

Proper shipping name (ADN) AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS polyoxypropyleneamine, Formaldehyde,

oligomeric reaction products with phenol and triethylenetetramine)

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C7

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ADN packing group

ICAO packing group

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-A, S-B

ADR transport category 3

Emergency Action Code 2X

Hazard Identification Number

(ADR/RID)

Tunnel restriction code (E)

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

80

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

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

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways.

RID: European Agreement concerning the International Carriage of Dangerous Goods by

Rail.

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate.

LC₅o: Lethal Concentration to 50 % of a test population.

LD₅o: Lethal Dose to 50% of a test population (Median Lethal Dose).

EC50: 50% of maximal Effective Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations

and acronyms

Eye Dam. = Serious eye damage Skin Corr. = Skin corrosion

Skin Sens. = Skin sensitisation

Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and

sources for data

Source: European Chemicals Agency, http://echa.europa.eu/

Classification procedures according to Regulation (EC)

1272/2008

Eye Dam. 1 - H318: Skin Corr. 1B - H314: Skin Sens. 1 - H317: : Expert judgement. Aquatic

Chronic 3 - H412: : Expert judgement.

Training advice Read and follow manufacturer's recommendations. Only trained personnel should use this

material.

Revision date 15/06/2018

Revision 6

Supersedes date 24/05/2018

SDS number 10624

Hazard statements in full

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H361 Suspected of damaging fertility or the unborn child if swallowed.

H372 Causes damage to organs (Respiratory tract) through prolonged or repeated exposure if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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.



SAFETY DATA SHEET WEST SYSTEM SIX 10 RESIN

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 SIX 10 RESIN

Product number 610A

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

Identified uses Resin.

Uses advised againstNo 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 SIX 10 RESIN

Signal word Warning

Hazard statements H315 Causes skin irritation.

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

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements 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.

Contains bis-[4-(2,3-epoxipropoxi)phenyl]propane, Butanedioldiglycidyl ether, BISPHENOL F EPOXY

RESIN, Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Supplementary precautionary

statements

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

bis-[4-(2,3-epoxipropoxi)phenyl]propane	60-100%
DIS-14-(2,3-epoxipropoxi)pnenyi propane	60-100

CAS number: 1675-54-3 EC number: 216-823-5 REACH registration number: 01-

2119456619-26-XXXX

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

Butanedioldiglycidyl ether 5-10%

CAS number: 2425-79-8 EC number: 219-371-7 REACH registration number: 01-

2119494060-45-0006

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H312

Acute Tox. 4 - H332

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Aquatic Chronic 3 - H412

WEST SYSTEM SIX 10 RESIN

BISPHENOL F EPOXY RESIN 5-10%

CAS number: 9003-36-5 EC number: 500-006-8 REACH registration number: 01-

2119454392-40-0000

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

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

1-5%

CAS number: 68609-97-2 EC number: 271-846-8 REACH registration number: 01-

2119485289-22-0004

Classification

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

General information Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

Inhalation 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.

Ingestion 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.

Skin contact 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.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 10 minutes.

Protection of first aiders 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

Revision date: 15/11/2018 Revision: 8 Supersedes date: 15/06/2018

WEST SYSTEM SIX 10 RESIN

General information 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.

Inhalation Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion May cause discomfort if swallowed.

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

skin.

Eye contact Irritating to eyes.

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

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

WEST SYSTEM SIX 10 RESIN

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.

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.

WEST SYSTEM SIX 10 RESIN

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: ≥ 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.

Hygiene measures 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.

Respiratory protection 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.

Environmental exposure

controls

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

Appearance Viscous liquid. Creamy liquid.

Colour White/off-white.

Odour Mild.

Odour threshold Not determined.

pH Not determined.

Melting point Not determined.

Initial boiling point and range >250°C @ 760 mm Hg

Flash point > 93°C Closed cup.

Evaporation rate Not determined.

Evaporation factor Not determined.

Upper/lower flammability or

explosive limits

Not determined.

Vapour pressure <1 mm Hg @ °C

Vapour density >1

Relative density 1.17 @ 20°C

Bulk density Not determined.

Solubility(ies) Slightly soluble in water.

Partition coefficient Not determined.

Auto-ignition temperature Not determined.

WEST SYSTEM SIX 10 RESIN

Decomposition Temperature Not determined.

Viscosity ~100,000 mPa s @ 25°C

Explosive properties Not determined.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information Not known.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under the prescribed storage conditions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Possibility of hazardous

None known.

reactions

products

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

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 LD50) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 19,318.94

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 18,272.43

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

ATE inhalation (vapours mg/l) 182.72

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.

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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.

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

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 -

Based on available data the classification criteria are not met.

development

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

No specific target organs known. Target organs

Medical considerations Skin disorders and allergies.

Toxicological information on ingredients.

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

Acute toxicity - oral

Notes (oral LD₅₀) > 2000 mg/kg Rat REACH dossier information. Based on available data the

classification criteria are not met.

Acute toxicity - dermal

> 2000 mg/kg Rat REACH dossier information. Based on available data the Notes (dermal LD₅₀)

classification criteria are not met.

Skin corrosion/irritation

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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

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.

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.

Butanedioldiglycidyl ether

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

1,163.0

Species Rat

ATE oral (mg/kg) 1,163.0

Acute toxicity - dermal

Notes (dermal LD50) Harmful in contact with skin.

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Notes (inhalation LC50) Harmful if inhaled.

ATE inhalation (vapours

mg/l)

11.0

Skin corrosion/irritation

Animal data Dose: 0.5ml, 4 hr, Rabbit Erythema/eschar score: No erythema (0). Oedema score:

No oedema (0). REACH dossier information. Irritating to skin.

Skin sensitisation

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Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Sensitising. REACH dossier

information. May cause sensitisation by skin contact.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Positive. REACH dossier information. Based on available data the

classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available

data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 200 mg/kg, Oral, Rat REACH dossier information. Not classified as a

specific target organ toxicant after repeated exposure.

BISPHENOL F EPOXY RESIN

Toxicological effects No information available.

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

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

26,800.0

Species Rat

REACH dossier information. Based on available data the classification criteria are Notes (oral LD₅₀)

not met.

ATE oral (mg/kg) 26,800.0

Skin corrosion/irritation

Animal data Dose: , 24 hr, Rabbit Primary dermal irritation index: 4.08 REACH dossier

information. Irritating.

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.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information.

Reproductive toxicity

Reproductive toxicity -

- NOAEL 200 mg/kg/day, Dermal, Rat P REACH dossier information.

Developmental toxicity: - NOAEL: 200 mg/kg/day, Dermal, Rat REACH dossier

fertility

development

Reproductive toxicity -

information.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL > 1 mg/kg, Dermal, Rat Estimated value. REACH dossier information.

SECTION 12: Ecological Information

Ecotoxicity Dangerous for the environment if discharged into watercourses.

WEST SYSTEM SIX 10 RESIN

12.1. Toxicity

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

Ecological information on ingredients.

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

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 1.2 mg/l, Oncorhynchus mykiss (Rainbow trout)

REACH dossier information.

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 2.8 mg/l, Daphnia magna

REACH dossier information.

Acute toxicity - aquatic

plants

EC₅o, 72 hours: 9.4 mg/l, Selenastrum capricornutum

REACH dossier information.

Acute toxicity - IC50, 3 hours >: 100 mg/l, Activated sludge

microorganisms REACH dossier information.

Butanedioldiglycidyl ether

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 24 mg/l, Brachydanio rerio (Zebra Fish)

REACH dossier information.

Acute toxicity - aquatic

invertebrates

EC₅₀, 24 hours: 76 mg/l, Daphnia magna

REACH dossier information.

Acute toxicity - aquatic

plants

EC₅₀, 72 hours: > 160 mg/l, Freshwater algae

REACH dossier information.

Acute toxicity - IC50, 3 hours: > 100 mg/l, Activated sludge

microorganisms REACH dossier information.

BISPHENOL F EPOXY RESIN

Toxicity There are no data on the ecotoxicity of this product.

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

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 5000 mg/l, Oncorhynchus mykiss (Rainbow trout)

REACH dossier information.

Acute toxicity - aquatic

EC₅₀, 48 hours: 7.2 mg/l, Daphnia magna

invertebrates

REACH dossier information.

Acute toxicity - aquatic

plants

NOEC, 72 hours: 500 mg/l, Freshwater algae

REACH dossier information.

Acute toxicity - EC₅₀, 3 hours: > 100 mg/l,

microorganisms Estimated value.

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.

WEST SYSTEM SIX 10 RESIN

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

Phototransformation Water - DT₅₀ : 6.44 hours

Estimated value.

REACH dossier information.

Biodegradation Water - Degradation (%) 5: 28 days

REACH dossier information.

No biodegradation observed under test conditions.

Butanedioldiglycidyl ether

Stability (hydrolysis) pH7 - Half-life: 86 hours @ 25°C

Estimated value.

REACH dossier information.

Biodegradation Water - Degradation (%) 43: 28 days

REACH dossier information.

The product is not readily biodegradable.

BISPHENOL F EPOXY RESIN

Biodegradation Not determined.

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.

Partition coefficient Not determined.

Ecological information on ingredients.

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

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

information.

Partition coefficient log Pow: ≥ 2.918 REACH dossier information.

Butanedioldiglycidyl ether

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient log Pow: -0.269 REACH dossier information.

BISPHENOL F EPOXY RESIN

Bioaccumulative potential No data available on bioaccumulation.

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

Bioaccumulative potential The product is not bioaccumulating. BCF: ~ 160, Estimated value. REACH dossier

information.

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WEST SYSTEM SIX 10 RESIN

12.4. Mobility in soil

Mobility No information available.

Ecological information on ingredients.

bis-[4-(2,3-epoxipropoxi)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.

Butanedioldiglycidyl ether

Mobility The product is soluble in water.

Surface tension 44.4 mN/m @ 20°C REACH dossier information.

BISPHENOL F EPOXY RESIN

Mobility No information available.

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

Mobility Slightly soluble in water.

Adsorption/desorption

coefficient

Water - log Koc: > 5.63 @ 20°C REACH dossier information.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

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

assessment

Ecological information on ingredients.

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

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

Butanedioldiglycidyl ether

assessment

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

BISPHENOL F EPOXY RESIN

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.

assessment

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

12.6. Other adverse effects

WEST SYSTEM SIX 10 RESIN

Other adverse effects None known.

Ecological information on ingredients.

BISPHENOL F EPOXY RESIN

Other adverse effects None known.

SECTION 13: Disposal considerations

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

Proper shipping name (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS bis-[4-(2,3-

epoxipropoxi)phenyl]propane, BISPHENOL F EPOXY RESIN)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS bis-[4-(2,3-

epoxipropoxi)phenyl]propane, BISPHENOL F EPOXY RESIN)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS bis-[4-(2,3-

epoxipropoxi)phenyl]propane, BISPHENOL F EPOXY RESIN)

Proper shipping name (ADN) 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)

ADR/RID class 9

ADR/RID classification code M6

ADR/RID label 9

IMDG class 9

ICAO class/division 9

ADN class 9

WEST SYSTEM SIX 10 RESIN

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

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 90

(ADR/RID)

Tunnel restriction code (-)

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

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 SIX 10 RESIN

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways.

RID: European Agreement concerning the International Carriage of Dangerous Goods by

Rail.

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate.

LC₅o: Lethal Concentration to 50 % of a test population.

LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).

EC50: 50% of maximal Effective Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations

and acronyms

Eye Irrit. = Eye irritation Skin Irrit. = Skin irritation

Skin Sens. = Skin sensitisation

Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and

sources for data

Source: European Chemicals Agency, http://echa.europa.eu/

Classification procedures according to Regulation (EC)

1272/2008

Skin Irrit. 2 - H315: Eye Irrit. 2 - H319: Skin Sens. 1 - H317: : Expert judgement. Aquatic

Chronic 2 - H411: : Expert judgement.

Training advice Read and follow manufacturer's recommendations. Only trained personnel should use this

material.

Revision date 15/11/2018

Revision 8

Supersedes date 15/06/2018

SDS number 10625

Hazard statements in full H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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.