



# OASIS 8758 EPOXY TANK LINING

## PRODUCT HEALTH AND SAFETY DATA

**Product Reference** : Oasis 8758 Epoxy Tank Lining  
**Date of Issue** : 23/03/2016

**Issue** : 1T A  
**Page** : 1 of 8

### 1. IDENTIFICATION OF PREPARATION AND OF COMPANY

**Full name** Oasis 8758 Epoxy Tank Lining

**Manufacturer** Al Gurg Paints LLC

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**United Arab Emirates**

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**Description:** A epoxy phenolic primer finish for application by spray, brush or roller. Based on two pack phenolic epoxy resin system pigmented inorganic & organic pigments and containing xylene solvent. It is used for internal storage tanks and vessels.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

The following ingredients have recognised health effects or exposure limits, and are present in concentrations above the limits laid down in the Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (CHIP 2).

Substance	Weight in Paint	Classification	Risk Phrases*	CAS Number
<b>BASE:</b>				
Epoxy resin (Numbers Average Mol Wt <= 700)	10-25%	N	R51	500-003-08
		N	R53	
		Xi	R36/38	25068-38-6
		Xi	R43	
Xylene (mixture of isomers)	10-25%	Xi	R38	1330-20-7
		Xn	R20/21	
<b>ADDITIVE:</b>				
Benzyl alcohol	25-50%	Xn	R20/22	202-859-9
Xylene (mixture of isomers)	2.5-10%	Xi	R38	215-535-7
		Xn	R20/21	
4,4'-methylenebis(cyclohexylamine)	2.5-10%	Xi	R53	217-168-8
		C	R35	
		Xn	R21/R22	
		N	R51	
		Xi	R37	
		Xi	R43	
		Xn	R22	
Methyleneoxide, polymer with benzenamine, hydrogenated	25-50%	Xn	R22	
		C	R35	

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\*For full details of R-phrases, see Section 16.

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### **3. HAZARDS IDENTIFICATION**

This material has been assessed under the Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 and has been classified as follows :-

Base:		R10	Flammable.
	Xn	R20/21	Harmful by inhalation and in contact with skin.
	Xi	R36/38	Irritating to eyes and skin
	Xi	R43	May cause sensitisation by skin contact.
		R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Additive:		R10	Flammable.
	Xn	R20/21	Harmful by inhalation and if swallowed.
	Xi	R36/38	May cause sensitisation by skin contact.
	Xi	R43	Irritating to eyes and skin.
		R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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### **4. FIRST-AID MEASURES**

**In all cases of doubt, or where symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.**

<b>Inhalation</b>	Remove victim immediately from source of exposure. Keep the affected person warm and at rest. Get prompt medical attention. Place unconscious person on the side in the recovery position and ensure breathing. If respiratory problems, artificial respiration/oxygen.
<b>Eye contact</b>	Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
<b>Skin contact</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water, or use a proprietary skin cleanser. Do NOT use solvents or thinners.
<b>Ingestion</b>	DO NOT induce vomiting. Get medical attention immediately. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

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### **5. FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

Use alcohol resistant foam, carbon dioxide, dry powder or water spray/mist. Do NOT use water jet.

#### **Recommendations**

Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Exposure to decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire-fighting to enter drains or water courses.

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### **6. ACCIDENTAL RELEASE MEASURES**

#### **PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet. Warn everybody of potential hazards and evacuate if necessary. Solvent vapours may form explosive mixtures with air. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

### ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

### SPILL CLEAN UP METHODS

Keep combustibles away from spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage. Store in a cool and well-ventilated place. Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

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## 7. HANDLING AND STORAGE

### Handling

Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid concentrations higher than the occupational exposure limits.

Additionally the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Keep the container tightly closed. Exclude sources of heat, sparks and open flame. Non-sparking tools should be used.

Required air quantity to ventilate to 10% of the LEL. 47 m<sup>3</sup>/tr

The above figure is given as a guide only. Ventilation and extraction must be arranged so that all parts of the workplace are properly ventilated i.e. there are no recesses or pockets where high vapour concentrations are allowed to build up.

If there is any doubt about the adequacy of the ventilation/extraction of solvent vapour, regular monitoring of confined workplaces should be carried out.

Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Smoking, eating and drinking should be prohibited in areas of storage and use.

For personal protection, see Section 8.

Never use pressure to empty; the container is not a pressure vessel.

Good housekeeping standards and regular safe removal of waste materials will minimise the risks of spontaneous combustion and other fire hazards.

	<b>Base</b>	<b>Additive</b>	<b>Composite</b>
20 litre unit	27.20 kg	4.12 kg	31.32 kg
5 litre unit	6.80 kg	1.03 kg	7.83 kg

### Storage

Observe the label precautions. Store in closed original container at temperatures between 5°C and 25°C. Store in a cool and well-ventilated place. Keep away from sources of ignition - No smoking. Containers which are open should be properly re-sealed and kept upright to prevent leakage. Flammable/combustible - Keep away from oxidisers, heat and flames. Avoid contact with oxidising agents. Keep away from heat, sparks and open flame. Store in accordance with local regulation.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of

particulates and/or solvent vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn (see 'Personal Protection' below).

### **Exposure Limits**

Occupational Exposure Standards and/or Maximum Exposure Limits have been established by the Health and Safety Commission or recommended by the supplier for certain of the ingredients. OELs are taken from the current version of EH40 except those marked 'Sup', which are assigned by the supplier of the substance.

<b>Occupational Exposure Limits</b>			
<b>Substance</b>	<b>8 hr TWA<sup>1</sup></b>	<b>15 min STEL<sup>2</sup></b>	<b>Notes</b>
Xylene (mixture of isomers)	50ppm(OES)	100ppm(OES)	Skin
	<sup>1</sup>		Long term exposure limit - 8 hour time weighted average
	<sup>2</sup>		Short term exposure limit - 15 minute reference period
	<sup>3</sup>		There is a risk of absorption through unbroken skin
	OES		Occupational exposure standard

Further guidance on OES/MEL and the assessment of occupational exposure to harmful materials, including mixed exposures, is given in HSE Guidance Note EH40.

### **Personal Protection**

All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet requirements of the COSHH Regulations.

**Respiratory Protection** Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the Occupational Exposure limits and engineering controls and methods cannot reasonably be improved.

Dry-sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

**Hand Protection** When skin exposure may occur, advice should be sought from glove suppliers on appropriate types.

Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

**Eye Protection** Eye protection designed to protect against liquid splashes should be worn.

**Skin Protection** Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleanser.

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## **9. PHYSICAL PROPERTIES**

Physical State	Viscous liquid
Odour	Characteristic odour
Colour	White/Buff
Density	1.57 g/cm <sup>3</sup>
Viscosity Base	26 - 33 poise BR at 25°C
Viscosity Additive	32 -40 Sec B4 at 25°C
Flash Point base	24°C
Flash Point Additive	24°C
Volatile Organic Content	243 g/ltr
Explosion Limit - lower	1.0%
Water Solubility	Immiscible

## **10. STABILITY AND REACTIVITY**

Stable under the recommended storage and handling conditions (see Section 7).

In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced.

Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.

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## **11. TOXICOLOGICAL INFORMATION**

There is no data available on the product itself.

Exposure to organic solvent vapours may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the renal and central nervous systems. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.

Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eye may cause irritation and reversible local damage.

Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea. Other effects may be as described for exposure to vapours.

Increased incidences of lung cancer have been identified in the chromate manufacturing industry. Epidemiological studies have shown that where lead chromates alone were manufactured there were no cancer excesses.

Animal studies have shown that some insoluble chromates are carcinogenic but the data does not extend to lead chromate pigments. There is no evidence of a risk of lung cancer arising from the use of lead chromate containing products.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitiser and an irritant. It contains low molecular epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies.

Skin contact with the preparation and exposure to spray mist and vapour should be avoided.

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## **12. ECOLOGICAL INFORMATION**

There is no data available on the product itself.

The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

The product has been assessed following the conventional method in CHIP and is not classified as dangerous for the environment, but contains substances so classified. See Section 2 for details.

The following information is available on the individual substances that are hazardous to the environment.

<b>Substance</b>	<b>Property</b>	<b>Details</b>
Epoxy resin (Numbers Average Mol Wt <= 700)	Mobility	Sinks in water. If product enters soil it will be mobile and may contaminate groundwater.
	Persistence and Biodegradability	Expected to be not readily biodegradable.
	Other adverse effects	Has the potential to bioaccumulate.
4,4'-methylenebis(cyclohexylamine)	No data available	

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## **13. DISPOSAL CONSIDERATIONS**

Do not allow to enter drains or water courses, or dispose of where ground or surface waters may be affected.

Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Using information provided in this data sheet, advice should be obtained from the Environment Agency whether the special waste regulations apply.

#### **14. TRANSPORT INFORMATION**

##### **Transport within the user's premises**

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

##### **Transport Classification**

**Base:**

**Transport Details**

Class	: 3	Proper Shipping Name	: Paint
Tream Card	: 30GF1-III	Technical Name	:
Pri. Haz. Class		Sub Hazard	: -
Marine EmS F-E,S-E	Marine Pollutant No	UN Number	: 1263
Packing Group	: III		

Ensure drivers have adequate training.

**Additive:**

Class	: 3	Proper Shipping Name	: Paint
Tream Card	: 30GF1-III	Technical Name	:
Pri. Haz. Class		Sub Hazard	: -
Marine EmS F-E,S-E	Marine Pollutant No	UN Number	: 1263
Packing Group	: III		

This information does not apply to carriage by air. Please contact the Export Department of Al Gurg Paints LLC if transport by air is required.

#### **15. REGULATORY INFORMATION**

The product has been classified and labelled for supply in accordance with the CHIP 2 regulations as follows:-

**Base:**

Symbols:



CORROSIVE

Named Substances: Epoxy resin (Numbers Average Mol Wt  $\leq$  700)

Xylene (mixture of isomers)

Contains epoxy constituents. See information supplied by the manufacturer.

Flammable.  
Harmful by inhalation and in contact with skin.  
Irritating to eyes and skin. May cause sensitisation by skin contact.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Do not breathe vapour/spray.  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Wear suitable protective clothing and gloves In case of insufficient ventilation, wear suitable respiratory equipment.

This material and/or its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheet.

**Additive:**

Symbols:



FLAMMABLE

Named Substances: Benzyl alcohol  
4,4'-methylenebis(cyclohexylamine)

Flammable.  
Harmful by inhalation and if swallowed.  
Irritating to eyes and skin. May cause sensitisation by skin contact.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Do not breathe vapour/spray.  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Wear suitable protective clothing and gloves In case of insufficient ventilation, wear suitable respiratory equipment.

This material and/or its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheet.

The information contained in this data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation.

The provisions of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

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**16. OTHER INFORMATION**

Full details of R-phrases are as follows:-

- R20/21 Harmful by inhalation and in contact with skin
- R21/22 Harmful in contact with skin and if swallowed
- R22 Harmful if swallowed
- R33 Danger of cumulative effects.
- R34 Causes burns.
- R36/38 Irritating to eyes and skin
- R38 Irritating to skin

R40 Possible risk of irreversible effects

R43 May cause sensitisation by skin contact.

R51 Toxic to aquatic organisms.

R53 May cause long-term adverse effects in the aquatic environment.

The information in this data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use are outside the supplier's control, the user is responsible for ensuring the requirements of relevant legislation are complied with.

The information contained in this data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. Further information and relevant advice can be found in:

The Chemical (Hazard Information and Packaging for Supply) Regulations 2002 (SI 2002:1689) and amendments.

Health and Safety at Work etc. Act 1974

Environmental Protection Act 1990

Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1972 (SI 1972:917)

Collection and Disposal of Waste Regulations 1988 (SI 1991:2839)

Control of Substances Hazardous to Health Regulations 2002 (SI 2002:2677).

Manual Handling Operations Regulations 1992 (SI 1992:2793)

Environmental Protection (Duty of Care) Regulations 1992 (SI 1992:2839)

Personal Protective Equipment at Work Regulations 1992 (SI 1992:2966)

Spraying of Highly Flammable Liquids, HSG178

Occupational Exposure Limits, EH40 (revised annually)

The storage of flammable liquids in containers, HSG51

Chemical warehousing: the storage of packaged dangerous substances, HSG71

The Approved Classification and Labelling Guide (Fifth Edition), L131.

The Approved Supply List, L129.

The Approved Code of Practice: The Compilation of Safety Data Sheets (Third Edition), L130.

Special Waste Regulations 1996 (SI 1996:972) and amendments

The interpretation and use of flashpoint information, CS24

COSHH Essentials: easy steps to control chemicals, HSG193. Details of available Control Guidance Sheets, which may be relevant to the particular conditions of use, can also be found in HSG193.

A Guide to Working with Solvents, INDG 272

Working safely with solvents, 1998, INDG273