OASIS 8555 EPOXY FINISH

PRODUCT HEALTH AND SAFETY DATA

1. IDENTIFICATION OF PREPARATION AND OF COMPANY

Full name Oasis 8555 Epoxy Finish

Manufacturer Al Gurg Paints LLC

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Description: A durable glossy finish for spray, brush or roller application over suitable primers or undercoats. Based on a two pack epoxy resin system with inorganic and/or organic pigments and containing aromatic hydrocarbon, 1-methoxypropan-2-ol and xylene solvents.

The colours listed below are available in both lead containing and lead-free versions. The container label will indicate whether the material is lead-free or not.

Lead Chromate List

BS381C 216 Gloss - Eau-De-Nil
BS381C 228 Gloss - Emerald Green
BS381C 320 Gloss - Light Brown
BS381C 369 Gloss - Biscuit
BS381C 448 Gloss - Deep Indian Red
BS381C 537 Gloss - Signal Red
BS381C 557 Gloss - Light Orange
BS381C 592 Gloss - International Orange
BS4800 04D45 – Crimson
BS4800 04E53 - Red
BS4800 06C39 - Tobacco
BS4800 06D43 - Orange Tan
BS4800 06E51 – Nasturtium
BS4800 08B29 - Vandyke
BS4800 08C35 - Cinnamon
BS4800 08C37 - Bracken
BS4800 08E51 - Golden Yellow
BS4800 10C33 - Pollen
BS4800 10E53 - Canary Yellow
BS4800 12B29 - Black Forest
BS4800 12C33 - Willow
BS4800 12D43 - Sapling
BS4800 12D45 – Avocado
BS4800 14C39 - Holly
BS4800 14E51 - April Green
BS4800 14E53 - Emerald
BS5252 04D44
BS5252 06D45
BS5252 10B29
BS5252 10E50
BS5252 12B27
BS5252 12C39
BS5252 14C40 - Green
BS5252 14E58 - Ivy Green
Beige - R5100
Green - R5038
Green - R5083
Green Yellow - R5007
Mid Brunswick Green -
R4358 Pale Primrose - R5033
Post Office Red - R5005
RAL 1002 - Sand Yellow
RAL 1003 - Signal Yellow
RAL 1004 - Gold Yellow
RAL 1006 - Maize Yellow
RAL 1007 - Chrome Yellow
RAL 1011 - Brown Beige
RAL 1012 - Lemon Yellow
RAL 1017 - Saffron Yellow
RAL 1018 - Zinc Yellow

RAL 1021 - Cadmium Yellow	RAL 1023 - Traffic Yellow
RAL 1032 - Broom Yellow	RAL 2000 - Yellow Orange
RAL 2002 - Blood Orange	RAL 2004 - Pure Orange
RAL 2009 - Traffic Orange	RAL 2011 - Deep Orange
RAL 3000 - Fire Red	RAL 3001 - Signal Red
RAL 3002 - Carmine Red	RAL 3009 - Oxide Red
RAL 3011 - Brown Red	RAL 3013 - Tomato Red
RAL 3016 - Coral Red	RAL 6001 - Emerald Green
RAL 6002 - Leaf Green	RAL 6003 - Olive Green
RAL 6005 - Moss Green	RAL 6009 - Fir Green
RAL 6010 - Grass Green	RAL 6016 - Turquoise Green
RAL 6017 - May Green	RAL 6018 - Yellow Green
RAL 6020 - Chrome Oxide Green	RAL 6024 - Traffic Green
RAL 6025 - Fern Green	RAL 6028 - Pine Green
RAL 6031 - Bronze Green	RAL 6032 - Signal Green
RAL 8001 - Ochre Brown	RAL 8003 - Loam Brown
RAL 8012 - Red Brown	RAL 8024 - Beige Brown
Rubt Red - R5107	Shell 4 Yellow
Shell 8 Blue Green	Shell 9 Dark Green
Shell 11 Red	Thule Green - R4754
Traffic Red - R4800	UNO22 Lime

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		Risk Phrases*	CAS Number
		Classification		
BASE:				
Epoxy resin (Numbers Average Mol Wt <= 700)	10-25%	Xi	R36/38	25068-38-6
		Xi	R43	
Xylene (mixture of isomers)	25-50%	Xi	R38	1330-20-7
		Xn	R20/21	
Base (For colours containing Lead Chromate)				
Epoxy resin (Numbers Average Mol Wt <= 700)	25-50%	Xi	R36/38	25068-38-6
		Xi	R43	
Xylene (mixture of isomers)	25-50%	Xi	R38	1330-20-7
		Xn	R20/21	
			R33	
Lead Chromates	>1%	Repr. Cat. 3	R40	7758-97-6
		Repr. Cat. 1	R61	
		Repr. Cat. 3	R62	
			R33	
ADDITIVE:				
Xylene (mixture of isomers)	25-50%	Xi	R38	1330-20-7
		Xn	R20/21	

Mesitylene	<2.5%	Xi	R37	108-67-8

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

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.
Base (with lead chromate):		R10	Flammable.
	Xn	R20/21	Harmful by inhalation and in contact with skin.
		R33	Danger of cumulative effects.
	Xi	R36/38	Irritating to eyes and skin
	Carc. Cat. 3	R40	Possible risk of irreversible effects
	Xi	R43	May cause sensitisation by skin contact.
	Repr. Cat. 1	R61	May cause harm to the unborn child
	Repr. Cat. 3	R62	Possible risk of impaired fertility
Additive:		R10	Flammable.
	Xn	R20/R21	Harmful by inhalation and contact with skin.
	Xi	R43	May cause sensitisation by skin contact.

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.

Inhalation Remove to fresh air, keep patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.

Eye contact Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

Skin contact Remove contaminated clothing. Wash skin thoroughly with soap and water, or use a proprietary skin cleanser. Do NOT use solvents or thinners.

Ingestion If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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.

6. ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8. Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Do not allow to enter drains or water courses. Clean preferably with a detergent; avoid the use of solvents. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the National Rivers Authority.

7. HANDLING AND STORAGE

Handling

Persons with a history of skin sensitisation problems should only be employed in processes in which this product is used under appropriate medical supervision.

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.	88 m^3/ltr

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.

	Base	**Additive**	**Composite**
20 litre unit	25.6 - 28.8 kg	4.4 kg	30.0 - 33.2 kg
5 litre unit	6.4 - 7.2 kg	1.1 kg	7.5 - 8.3 kg

Storage

Although the storage of this product is not subject to specific statutory requirements, the principles contained in the HSE guidance note Storage of Flammable Liquids in Containers, should be observed.

Observe the label precautions. Store between 5°C and 35°C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers which are open should be properly re-sealed and kept upright to prevent leakage.

The principles contained in the HSE guidance note Storage of Packaged Dangerous Substances should be observed when storing this product. Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

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.

	Occupational Exposure Limits		
Substance	**8 hr TWA[1]**	**15 min STEL[2]**	**Notes**
1-methoxypropan-2-ol	100ppm(OES)	300ppm (OES)	Skin
Lead compounds	0.15mg/m³(MEL)		
Mesitylene	25ppm(OES)		
Xylene (mixture of isomers)	100ppm(OES)	150ppm(OES) Skin	

[1] Long term exposure limit - 8 hour time weighted average
[2] Short term exposure limit - 15 minute reference period
[3] 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.

9. PHYSICAL PROPERTIES

Physical State	Viscous liquid
Odour	Characteristic odour
Colour	Various
Density	1.21 g/cm³
Viscosity Base	4.0 - 6.0 poise DR at 25°C
Viscosity Additive	4.0 - 7.0 Poise DR at 25°C

Flash Point base	24°C
Flash Point Additive	26°C
Volatile Organic Content	363 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.

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 eyes 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.

Based on the properties of the epoxy consituent(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.

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.

Substance	Property	Details
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.
Polyethyleneamine	No data available	

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
Sub Hazard : -
Packing Group : III

Proper Shipping Name : Paint
UN Number : 1263

Ensure drivers have adequate training.

For International Road/Rail

Chemical Name : Paint
Item Number : 31°(c)
Trem Card : 30G35

For Sea Transport

Marine Pollutant : No
EmS : 3-05
MFAG : 310

Additive:

Transport Details

Class : 3
Sub Hazard : -
Packing Group : III

Proper Shipping Name : Paint
UN Number : 1263

Ensure drivers have adequate training.

For International Road/Rail

Chemical Name : Paint
Item Number : 31°(c)
Trem Card : 30G35

For Sea Transport

Marine Pollutant : No
EmS : 3-05
MFAG : 310

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:-

For all colours except those listed in Section 1 as containing lead chromate:-

Base:

Symbols:

HARMFUL

Named Substances: Epoxy resin (Numbers Average Mol Wt ≤ 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.

Base for colours containing lead chromate (see Section 1):

Symbols:

Named Substances: Epoxy resin (Numbers Average Mol Wt ≤ 700)

Lead Chromates

Warning label phrases: Contains lead. Should not be used on surfaces that are liable to be chewed or sucked by children
Contains epoxy constituents. See information supplied by the manufacturer.
Restricted to professional users.
Flammable.
Danger of cumulative effects.
Possible risk of irreversible effects
May cause sensitisation by skin contact.
May cause harm to the unborn child
Possible risk of impaired fertility
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
During spraying wear air-fed respiratory protective equipment.

Additive:

Symbols:

HARMFUL

Named Substances: Polyethyleneamines
Xylene (mixture of isomers)

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.

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.

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