



# OASIS 8651 POLYURETHANE FINISH

## PRODUCT HEALTH AND SAFETY DATA

**Product Reference** : Oasis 8651 Polyurethane Finish  
**Date of Issue** : 14/03/2016

**Issue** : 1T A  
**Page** : 1 of 9

### 1. IDENTIFICATION OF PREPARATION AND OF COMPANY

**Full name** Oasis 8651 Polyurethane Finish

**Manufacturer** Al Gurg Paints LLC

**PO Box 22334**

**Sharjah**

**United Arab Emirates**

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**Description:** A high performance polyurethane sheen finish for spray application. Based on a two pack urethane resin system with inorganic and/or organic pigments and containing xylene, aromatic hydrocarbon and 1-methoxy-2-propyl acetate solvents.

Also, the following colours contain lead chromate pigment:-

BS381C 225 - Light Brunswick Green	BS381C 358 - Light Buff
BS381C 537 - Signal Red	BS381C 538 - Cherry
BS381C 539 - Currant Red	BS381C 557 - Light Orange
BS381C 592 - International Orange	BS381C 593 - Rail Red
BS4800 04D45 – Crimson	BS4800 04E53 – Red
BS4800 06C39 – Tobacco	BS4800 06E51 – Nasturtium
BS4800 08E51 - Golden Yellow	BS4800 10C33 - Pollen
BS4800 10E53 - Canary Yellow	BS4800 12D45 - Avocado
BS4800 14E51 - April Green	BS4800 14E53 – Emerald
BS5252 04D44	BS5252 12C39
High Visibility Orange - R4043	Orange - R5117
RAL 1018 - Zinc Yellow	RAL 1021 - Cadmium Yellow
RAL 2000 - Yellow Orange	RAL 3020 - Traffic Red
RAL 6001 - Emerald Green	RAL 6024 - Traffic Green
Superfast Brilliant Green 101	Yellow - R4269
Yellow - R4622	

### 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

Substance	Weight in Paint	Classification	Risk Phrases*	CAS Number
<b>BASE</b>				
1-methoxy-2-propyl acetate	25-50%	Xi	R36	283-152-28
		Xi	R43	
Xylene (mixture of isomers)	2.5-10%	Xi	R38	1330-20-7
		Xn	R20/21	

<b>Base (for colours containing lead chromate):</b>				
1-methoxy-2-propyl acetate	25-50%	Xi	R36	283-152-28
Lead Chromates	>1%	Carc. Cat. 3	R40	7758-97-6
		Repr. Cat. 1	R61	
		Repr. Cat. 3	R62	
Xylene (mixture of isomers)	2.5-10%	Xi	R38	1330-20-7
		Xn	R20/21	
<b>ADDITIVE</b>				
1-methoxy-2-propyl acetate	10-25%	Xi	R36	283-152-28
Aliphatic polyisocyanate	>50%	Xi	R43	28182-81-2
Ethylbenzene	2.5-10%	Xn	R20	100-41-4
Xylene (mixture of isomers)	10-25%	Xi	R38	108-67-8
		Xn	R20/21	1330-20-7

\*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 :-

<b>Base:</b>		R10	Flammable.
	Xi	R36	Irritating to eyes
<b>Base (with lead chromate):</b>	Xn	R10	Flammable.
		R33	Danger of cumulative effects.
	Xi	R36	Irritating to eyes
	Carc. Cat. 3	R40	Possible risk of irreversible effects
	Repr. Cat. 1	R61	May cause harm to the unborn child
	Repr. Cat. 3	R62	Possible risk of impaired fertility
<b>Additive:</b>		R10	Flammable.
	Xn	R20	Harmful by inhalation.
	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.**

<b>Inhalation</b>	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.
<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>	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.

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## **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 spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises: water (45 parts by volume)/ ethanol or isopropanol (50 parts)/ concentrated (d: 0.880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts)/ water (95 parts). Add the same decontaminant to any residues and allow to stand for several days in a non-sealed container until no further reaction occurs. Once this stage is reached, close the container and dispose of 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..

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## **7. HANDLING AND STORAGE**

### **Handling**

**Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should only be employed in processes in which this product is used under appropriate medical supervision.**

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

**Persons with chronic eczema should not be engaged in any process which involves the use of paints containing isocyanates.**

For colours containing lead chromate (listed in Section 1), avoid the inhalation of dusts and particulates arising from the use of these products.

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.      145 m<sup>3</sup>/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. 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.

Precautions should be taken to minimise the exposure to atmospheric humidity or water as carbon dioxide may be formed which, in closed containers can result in pressurisation. Care should be taken when reopening partly use containers.

The Manual Handling Operations Regulations may apply to the handling of containers/packages of this product. The following guide weight indicators are given to enable users to carry out assessments.

This information is also shown on the container label.

	<b>Base</b>	<b>Additive</b>	<b>Composite</b>
5 litre unit	5.25 kg	1.60 kg	6.85 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.

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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>Substance</b>	<b>Occupational Exposure Limits</b>		<b>Notes</b>
	<b>8 hr TWA<sup>1</sup></b>	<b>15 min STEL<sup>2</sup></b>	
1-methoxy-2-propyl acetate	100ppm(OES)		Sup
Ethylbenzene	100ppm(OES)	125ppm(OES)	
Isocyanates	0.02mg/m <sup>3</sup> (MEL)		
Lead compounds	0.15mg/m <sup>3</sup> (MEL)	0.07mg/m <sup>3</sup> (MEL)	
Xylene (mixture of isomers)	100ppm(OES)	150ppm(OES)	Sk <sup>3</sup>

- 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  
MEL Maximum exposure limit

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	Various
Density	1.30 g/cm <sup>3</sup>
Viscosity Base	3-4 poise Cp at 25°C
Viscosity Additive	2.2-2.6 Poise Cp at 25°C
Flash Point base	44°C
Flash Point Additive	40°C
Volatile Organic Content	454 g/ltr
Explosion Limit - lower	0.6%
Water Solubility	Immiscible

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## **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 occur with amines and alcohols. The product reacts slowly with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distorting, blowing and in extreme cases bursting the container.

## **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.

Based on the properties of the isocyanate content of this product, respiratory exposure may cause acute irritation and/or sensitisation of the respiratory system, resulting in asthmatic symptoms, wheezing and a tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to airborne concentrations of isocyanates well below the occupational exposure limit. Repeated exposure may lead to permanent respiratory disability.

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.

Epidemiological data shows an association between elevated maternal blood lead levels and developmental effects in the offspring. Following the introduction of the criteria for Toxic ton reproduction hazard classification the EC has classified all lead compounds as causing developmental toxicity in humans. Lead chromate, although of relatively low solubility and bioavailability, is included in this classification.

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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 Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product.

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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.

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## **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 : -

Proper Shipping Name : Paint  
UN Number : 1263

**Product Reference** : Oasis 8651 Polyurethane Finish  
**Date of Issue** : 14/03/2016

**Issue** : 1T A  
**Page** : 7 of 9

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Packing Group : III

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.

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### **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:



IRRITANT

Named Substances: Xylene (mixture of isomers)

Warning label phrases: Flammable  
Irritating to eyes  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Use only in well ventilated areas.

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

**Base:**

Symbols:



Named Substances: Lead Chromates  
Xylene (mixture of isomers)

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:



HARMFULL

Named Substances: Aliphatic polyisocyanate

Warning label phrases: 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.

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:-

Full details of R-phrases are as follows:-

R20 Harmful by inhalation.  
R20/21 Harmful by inhalation and in contact with skin.  
R33 Danger of cumulative effects.  
R36 Irritating to eyes  
R37 Irritating to respiratory system  
R38 Irritating to skin  
R40 Possible risk of irreversible effects  
R43 May cause sensitisation by skin contact.  
R61 May cause harm to the unborn child  
R62 Possible risk of impaired fertility

Full details of the hazard classifications are as follows:-

Repr. Cat. 1 Toxic for reproduction - Category 1  
Repr. Cat. 3 Toxic for reproduction - Category 3  
Carc. Cat. 3 Carcinogenic - Category 3

Further information about hazard classifications can be found in the Approved Guide to the Classification and Labelling of Substances and Preparations Dangerous for Supply.

The information in this data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging for Supply) Regulations 1994.

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 that 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 Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (SI 1994:3247)

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

Control of Lead at Work Regulations 1980 (SI 1980:1248)

Control of Substances Hazardous to Health Regulations 1988 (SI 1988:1657)

Manual Handling Operations Regulations 1992 (SI 1992:2793)

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

Occupational Exposure Limits, EH40

Your Health and 2-pack spray paints, MS(B)8

Surveillance of people exposed to health risks at work (ISBN 0 11 885574 3)

The storage of flammable liquids in containers, HS(G)51

Storage of Packaged Dangerous Substances, HS(G)71

The Approved Guide to the Classification and Labelling of Substances and Preparations Dangerous for Supply (Second Edition), L63

The Approved Supply List, L76