



OASIS NON FERROUS PRIMER

PRODUCT HEALTH AND SAFETY DATA

Product Reference : Oasis Non Ferrous Primer
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1. IDENTIFICATION OF PREPARATION AND OF COMPANY

Full name Oasis Non Ferrous Primer

Manufacturer Al Gurg Paints LLC

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Description: A solvent and water resistant primer for spray application to stainless steel, mild steel or galvanized steel surfaces. Base on a two pack polyurethane resin system with inorganic pigments and containing xylene and 1-methoxy-2-propyl acetate solvents.

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
Diphenylmethane-4,4'-diisocyanate	10-25%	Xn	R20,R42	101-68-8
		Xi	R36/37/38	
Xylene (mixture of isomers)	10-25%	Xi	R38	1330-20-7
		Xn	R20/21	
1-methoxy-2-propyl acetate	10-25%	Xi	R36	283-152-28

*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	R38	Irritating to skin
Additive:		R10	Flammable.
	Xn	R20/21	Harmful by inhalation and in contact with skin.
	Xi	R36/37/38	Irritating to eyes, respiratory system and skin.
	Xn	R42	May cause sensitisation by inhalation.

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.
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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.

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

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 108 m³/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 material will minimise the risks of spontaneous combustion and other fire hazards.

Precautions should be taken to minimise 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 re-opening partly used 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.

	Base	Additive	Composite
5 litre unit	5.0-5.30 kg	2.3 kg	7.3-7.60 kg

Storage

The storage and use of this product is subject to the requirements of the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations. Up to 50 litres of such highly flammable liquids may be kept in a work room provided they are kept in a fire-proof cupboard or bin. Larger quantities must be kept in a separate storeroom conforming to the structural requirements of the regulations. Further guidance is contained in the HSE guidance note Storage of Flammable Liquids in Containers.

Observe the label precautions. Store between 5°C and 25°C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened should be properly resealed 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, strongly alkaline and strongly acidic materials, amines, alcohols and water.

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. Spraying of isocyanate containing products should only be carried out in suitable spray booths or enclosures equipped with effective exhaust ventilation to prevent spray mist escaping into the work area outside the spray booth. Respiratory protective equipment should be worn by spray booth operators (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 TWA¹	15 min STEL²	Notes
1-methoxy-2-propyl acetate	100ppm (OES)		Sup
Isocyanates	0.02mg/m ³ (MEL)	0.07mg/m ³ (MEL)	
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. This should be in addition to other measures taken to reduce exposure (e.g. in booth design and operation and process modifications). Non-essential and unprotected people should be excluded from the area if exposure is possible.

When operators, whether spraying or not, have to work inside the spray booth, they should wear an air-fed respirator during the spraying process and until such time as the spray mist has cleared. However, persons entering the spray booths or enclosures for short periods (less than 15 minutes) when spraying is taking place may be protected from inhaling the spray mist by wearing suitable respirators with charcoal canisters. Care should be taken to ensure that filters are changed in accordance with the supplier's instructions. The use of a canister respirator is considered very much a second choice to air-fed respiratory protective equipment.

An air-fed respirator is not essential during short periods (less than 15 minutes) of spraying isocyanate containing products on small test panels in spray booths. However, an inward air velocity at the face of the booth of not less than 1 metre per second should be provided and a canister respirator must be worn.

To avoid the inhalation of dusts, operators should wear air line breathing apparatus when removing dry booth filters or removing or disposing of dry overspray deposits.

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.

Under cool, dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application. If dry flatting is unavoidable air-fed 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	1.30 g/cm ³
Viscosity Base	55-70 Sec B2 at 25°C
Viscosity Additive	40-48 Sec B2 at 25°C
Flash Point base	31°C
Flash Point Additive	28°C
Volatile Organic Content	515 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 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 concentration of isocyanates well below the occupational exposure limit. Repeated exposure may lead to permanent respiratory disability.

COSHH requires that persons exposed to products containing isocyanates, which are respiratory sensitisers, are subject to appropriate health surveillance. Publications giving guidance on health surveillance are listed in Section 16. Employees should be provided with a copy of the HSE pocket card containing information on isocyanate 2 pack spray paints.

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.

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

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 accident or spillage.

Base:

Transport Details

Class	: 3	Proper Shipping Name	: Paint
Sub Hazard	: -	UN Number	: 1263
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	Proper Shipping Name	: Paint
Sub Hazard : -		UN Number	: 1263
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

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:



HARMFUL

Named Substances : Xylene (mixture of isomers)

Warning label phrases : Flammable.
Harmful by inhalation and in contact with skin.
Irritating to skin
Do not breathe vapour/spray.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
In case of insufficient ventilation, wear suitable respiratory equipment.
Use only in well ventilated areas.

Additive:



HARMFUL

Named Substances : Diphenylmethane-4,4'-diisocyanate
Xylene (mixture of isomers)

Warning label phrases: Contains isocyanates. See information supplied by the manufacturer.
Flammable.
Harmful by inhalation and in contact with skin.
Irritating to eyes, respiratory system and skin.
May cause sensitisation by inhalation.
Do not breathe vapour/spray.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
During spraying wear air-fed respiratory protective equipment.
Use only in well ventilated areas. 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.

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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 Harmful by inhalation.
- R20/21 Harmful by inhalation and in contact with skin.
- R36 Irritating to eyes
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R38 Irritating to skin
- R42 May cause sensitisation by inhalation.

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 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
- The Approved Code of Practice: Safety Data Sheets for Substances and Preparations Dangerous for Supply, L62