

* 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY.

Product name: VU1000 RED OXIDE
 Intended use: Spray paint

Manufacturer: JAMES BRIGGS LTD.
 Address: Salmon Fields
 Royton
 Oldham

OL2 6HZ

Telephone: 0161 627 0101
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* 2. COMPOSITION/INFORMATION ON INGREDIENTS.

INGREDIENT NAME	CAS NO.	HEALTH (class)	RISK (R No.)	CONTENTS %
Xylene, mixture of isomers	1330-20-7	Xn	20/21-38	5-10
Acetone	67-64-1	None	None	25-50
1-Methoxy-2-Propanol	107-98-2	None	None	1-5
Butane	106-97-8	None	None	10-25
Propane	74-98-6	None	None	10-25
Non-hazardous ingredients		None	None	10-25
* 1-Methoxy Propan-2-ol Acetate	108-65-6	None	None	1-5

3. HAZARDS IDENTIFICATION.

Eye contact: Irritating to eyes.

Skin contact: Slight skin irritant. Prolonged or repeated contact can cause dermatitis.

Inhalation: High levels of vapour/mist may cause dizziness. Can cause irritation of the respiratory tract.

Ingestion: Accidental ingestion is an unlikely event.

4. FIRST AID MEASURES.

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 cleaner. Do NOT use solvents or thinners. If in doubt, seek medical advice.

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

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

5. FIRE-FIGHTING MEASURES.

Extinguishing media: Alcohol resistant foam; CO₂; powder; water spray/mist
 Do not use: Water jet.

Special fire fighting procedures: Fire exposed containers should be sprayed with water to lessen risk of explosion.

Unusual fire and explosion hazards: Fire will produce dense black smoke containing combustion products which may be a health hazard. Appropriate self-contained breathing apparatus may be required. Run off from fire must not enter drains.

6. ACCIDENTAL RELEASE MEASURES.

Procedures for leaks or spillage: Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Section 7 & 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 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: 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 vapour concentrations higher than the occupational exposure limits.
Use only in areas from which all sources of heat, sparks and open flame have been excluded.
Avoid skin and eye contact.
Avoid inhalation of vapour and spray mist.
Smoking, eating and drinking should be prohibited in areas of use and storage.

Storage: Store below 50 Deg.C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Observe the label precautions.
Store separately from strong oxidising agents and strongly alkaline and strongly acidic materials.

* 8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

INGREDIENT NAME	OES/MEL	8hr TWA	15min STEL	
Xylene, mixture of isomers	OES	100ppm	150ppm	(Sk)
Acetone	OES	750ppm	1500ppm	
1-Methoxy-2-Propanol	OES	100ppm	300ppm	(Sk)
Butane	OES	600ppm	750ppm	
* 1-Methoxy Propan-2-ol Acetate	OES	100ppm (Sup)		

Engineering measures: Provide adequate ventilation to maintain the flammable vapour concentration well below the lower explosive limit (LEL) and ensure the airborne concentration of substances to which an OES has been assigned is below that OES (Occupational Exposure Standard).

Respiratory protection: Air-fed respiratory 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 limit and engineering controls and measures cannot reasonably be improved.

Hand protection: When skin exposure may occur, advice may be sought from the glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of the 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 are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.
(Sk) denotes product can be absorbed through skin.

* 9. PHYSICAL AND CHEMICAL PROPERTIES.

Physical State: Aerosol.
Appearance: Coloured paint
Odour: Ketone solvent.
* pH: N/A
Boiling point/boiling range: 55 Deg.C
Melting point/melting range: <0 Deg.C
Flash point: -40 Deg.C
Flammability: LEL 0.8 (% vol in air @ 25 Deg.C)
UEL 13.0
Autoflammability: >250 Deg.C
Explosive properties: None
Oxidising properties: None
Can pressure: 2.75 bar.
Relative density:
VOC content: 35g/100ml
Solubility-Water: Insoluble
Solubility-Solvent: Soluble in ketones/esters.
Other data:

10. STABILITY AND REACTIVITY.

Stability: Stable.

Conditions to avoid: Avoid naked flames, red hot surfaces, other high temp.sources that may induce thermal decomposition

Incompatibility (Materials to avoid): Oxidising agents, strong acids, strong alkalis.

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

*11. TOXICOLOGICAL INFORMATION.

INGREDIENT	LD50(Animal/oral)
Acetone	9.75g/Kg(Rat)
1-Methoxy-2-Propanol	7.5g/Kg(Rat)

Xylene, mixture of isomers
* 1-Methoxy Propan-2-ol Acetate

4.3g/Kg(Rat)
8.5g/Kg(Rat)

There is no data available on the product itself.

Exposure to organic solvent vapours may result in adverse health effects on the renal and central nervous systems. Symptoms can include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Splashes in the eyes may cause irritation and reversible local damage.

Acetone may produce conjunctival irritation and corneal damage. Skin is unlikely to be irritated on brief or occasional exposure; prolonged contact may produce irritation and dermatitis. High vapour concentrations irritate the respiratory tract, are anaesthetic, and may cause headaches and dizziness, and depress the central nervous system leading to unconsciousness. Ingestion may cause gastro-intestinal irritation and CNS depression leading to unconsciousness.

Xylene vapour and liquid is irritating to the eyes. Liquid is a skin irritant; prolonged contact may cause dermatitis. High vapour concentrations irritate the respiratory tract, are anaesthetic, may cause drowsiness, nausea, dizziness and eventually unconsciousness. Ingestion of xylene may cause narcosis, vomiting and unconsciousness.

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.

Acetone has no bio-accumulation potential, it is not acutely toxic to aquatic organisms and has good biodegradability.

Xylene is likely to bio-accumulate, but with short retention with the order of a week or less. It is likely to be moderately toxic to aquatic organisms and it will biodegrade although it will float on water and evaporate slowly.

13. DISPOSAL CONSIDERATIONS.

Do not allow into 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.

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

14. TRANSPORT INFORMATION.

CCCN: 3208 20 90
UN no.: 1950 AEROSOLS
IMDG: 2102
Class: 2
ICAO/IATA: 2.1
RID/ADR: 2,5'F
Packing Group: N/A

*15. REGULATORY INFORMATION.

Label for supply: EXTREMELY FLAMMABLE

Risk phrases: None

Safety phrases:

- 2: Keep out of the reach of children.
- 16: Keep away from sources of ignition - No Smoking.
- 23: Do not breathe vapour/spray.
- 51: Use only in well ventilated areas.

Regulatory references: The Chemicals (Hazard Information and Packaging) Regulations 1994 and subsequent amendments.

16. OTHER INFORMATION.

The information contained in this data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging) Regulations. It does not constitute the user's own assessment of workplace risks as required by other health and safety legislation. The provisions of the Health & Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

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 the product are outside the supplier's control, the user is responsible for ensuring that the requirements of the relevant legislation are complied with.

OES/MEL values are obtained from the current issue of EH40 unless indicated thus (Sup) when a value has been obtained from the supplier.

Further information and advice can be found in the following publications:

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

Storage of Packaged Dangerous Substances, HS(G)71

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

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

Storage of Flammable Liquids in Containers, HS(G)51

Date of issue of original: 11/01/94

Revision: 5

Revision dated: 12/02/98

Items marked with a * have been amended since last revision.

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with legal regulations. The information contained herein is based on the current state of our knowledge and is intended to describe products from the point of view of safety requirements and thus should not be construed as guaranteeing specific properties. For further information contact the office.