

H. S. RICHARDS Ltd.

KING STREET SMETHWICK WARLEY WEST MIDLANDS B66 2JW
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MATERIAL SAFETY DATA SHEET

MSDS reference: GEN - B.1

Date of issue / revision: 08/04.

This MSDS should be read in conjunction with the product label. A **Material Technical Data Sheet** contains supplementary, non-statutory product information.

1. Identification of the preparation and company.

Product name and or code: This is a generic data sheet for low VOC, High-Solids, Compliant air drying, non-lead containing paints belonging to product groups prefixed 10,11,12,13, & 43 line.

Intended use: As a protective and decorative coating for a variety of substrates, as specified.

Company name: H.S.Richards Ltd., King Street, Smethwick, Warley, West Midlands. B66 2JW.

Emergency 'phone number: 0121 558 2261.

2. Composition / Information on ingredients.

Substances presenting a health or environmental hazard within the meaning of the CHIP Regulations or which are assigned Occupational Exposure Limit Values.

| Name | Conc. range(%) | Symbol | R-phrase(No.)* | EINECS No | CAS No |
|--|----------------|--------|----------------|-----------|-----------|
| XYLENE. | 25 – 40% | Xn | 20, 21, 38 | 215-535-7 | 1330-20-7 |
| PETROLEUM SOLVENT NAPHTHA HEAVY AROMATIC/C9 AROMATIC MIXTURE(SOLVESSO 100) | 0 – 5% | Xn, N, | 20, 65, 51/53, | | |
| 2-METHOXYPROPAN-1-OL | 0 – 2.5% | Xi | 37/38, 41, 67, | 201-148-0 | 78-83-1 |

(*) For full text, see Section 16.

3. Hazards identification.

Xn HARMFUL

4. First aid measures.

General:

In all cases of doubt, or when 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 is irregular seek medical advice. If breathing has stopped/ administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.

Eye contact:

Remove contact lenses. 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: recommended: alcohol resistant foam, CO₂, powder, water mist/spray.
Not to be used: 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 Section 7 and 8. Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite and place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Do not allow to enter drains or watercourses. Clean with a detergent; avoid use of solvents. If the product enters drains or sewers, immediately inform the local water company; in the case of contamination of streams, rivers or lakes, the relevant environment agency.

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 Limit Values.

In addition, the products 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.

The product may charge electrostatically. Always use earthing leads when transferring from one container to another. Operators should wear anti-static clothing and footwear. Floors should be conductive.

Keep the container tightly closed. Exclude sources of heat, sparks and open flame. Use non-sparking tools.

Avoid skin and eye contact. Avoid the inhalation of vapour.

Smoking, eating and drinking should be prohibited in storage and use areas.

For Occupational Exposure Control measures, see Section 8.

Never use pressure to empty the container. Keep the product in the supply container or in containers made of the same material.

The accumulation of over-spray or paint contaminated rags may result in spontaneous combustion.

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

The Manual Handling Operations Regulations may apply when handling containers of this product. Specific Gravity data from Section 9. can be used to calculate gross package weight.

Storage:

The storage and use of this product is subject to the requirements of the Highly Flammable and Liquefied Petroleum Gases Regulations. Up to 50 litres of such liquids may be kept in the work room, provided they are kept in a fireproof 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 label precautions. Store between 5 and 25 deg.C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

Store separately from oxidizing agents and strongly alkaline and strongly acidic materials.

The principles contained in the HSE guidance note Storage of Packaged Dangerous Substances should be observed when storing this product.

8. Exposure Controls /Personal Protection.

Exposure Controls

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 solvent vapour and/or particulates below the relevant occupational exposure limits values, suitable respiratory protection must be worn (see 'Occupational Exposure Controls' below).

Exposure Limit Values

| Substance | TWA (1) | | STEL(2) | | Notation(3) |
|--|---------|----------|---------|------|-------------|
| | Ppm (4) | mg.m (4) | Ppm | mg.m | |
| XYLENE | 100 | 441 | 150 | 662 | SK |
| PET.SOLV.NAPHTH HEAVY AROMATIC./C9 AROMATIC MIXTURE. | | 220 | | | note* |
| 2-METHYL PROPAN-1-OL | 50 | 154 | 75 | 231 | |
| | | | | | |
| | | | | | |

* Derived from Reciprocal Calculation Procedure, EH40.

1.Long Term Exposure Limit – 8 hour Time Weighted Average.

2.Short Term Exposure Limit – 15 minute reference period

3. SK indicates a risk of absorption through the skin. SEN indicates a respiratory sensitiser.

4. OES indicates an Occupational Exposure Standard, MEL indicates a Maximum Exposure Limit.

OELs are taken from the current version of EH40, except those marked SUP which are assigned by the supplier of the substance.

Occupational Exposure Controls

All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the 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 OEL Values and engineering controls and methods cannot reasonably be improved.

Hand protection:

When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product. The information and instructions provided by the glove supplier on use, storage, maintenance and replacement must be followed.

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 are normally suitable. Grossly contaminated clothing should be removed and the skin washed with a proprietary cleaner or soap and water.

Regular skin inspection of users of this product is recommended.

ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET.

Environmental exposure control:

See Section 12 for detailed information.

9, Physical and Chemical Properties.

| Property | Value / Range | Method | Note |
|------------------------|--|--------------------|------|
| Physical state: | LIQUID | | |
| Flash point: | RANGE 23 –32 deg C | Abel | |
| Viscosity: | RANGE: Free flowing to thixotropic liquid. As specified. | ICI C & P / BS3900 | |
| Specific gravity: | RANGE: 0.95 – 1.35 g/ml | BS 3900 | |
| Vapour density: | Heavier than air | BS 3900 | |
| Vapour pressure: | NOT DETERMINED | | |
| Lower explosion limit: | 0.8%v/v | | |
| Solubility in water: | Immiscible | | |
| | | | |

Individual product specifications are given in the appropriate Material Technical Data Sheet.

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 dioxide, carbon monoxide and oxides of nitrogen may be produced. Keep away from oxidizing 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. The product has been assessed following the conventional method in CHIP and is classified for toxicological hazards accordingly. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. See Sections 3 and 15 for details of the resulting hazard classification.

Exposure to organic solvent vapours in excess of the stated occupational exposure limit may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the product may cause 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.

12, Ecological information.

There is no data available on the product itself.

The product has been assessed following the conventional method in CHIP and is classified for ecological hazards accordingly (see Sections 3 and 15) and is:

Not classified as dangerous for the environment, but contains substances so classified.

The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. LAPC / IPPC requirements of regulations made under the Environmental Protection Act / Pollution Prevention and Control Act may apply to this product.

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 controller wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act

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 a spillage or accident

Onward transport, subsequent purchase:

Transport to be in accordance with ADR for road, RID for rail, IMDG for sea and IATA/ICAO for air.

| | |
|-----------------------------|------------------|
| Proper shipping name: | FLAMMABLE LIQUID |
| U N Number: | 1263 |
| Hazard Class: | 3 |
| Packing Group: | 3 |
| Sub-hazard Class: | |
| Technical Name: | PAINT PRODUCT |
| Marine Pollutant: (Y / N) | YES |
| Emergency Schedule No: | |
| Flash Point: | 23 – 32 deg C |

15, Regulatory information.

The product is classified and labelled in accordance with the CHIP Regulations as ;
Contains: XYLENE.

| Symbol | R – Phrase see section 16 for text. |
|--------|-------------------------------------|
| Xn | 10, 20/21, 38 |
| | |
| | |

S – Phrase.

S2. Keep out of reach of children. P 201. For professional use only.

S 23/38. Do not breathe vapour/spray. In case of insufficient ventilation wear suitable respiratory equipment. S53. Avoid exposure-obtain special instructions before use.

S45. In case of fire use foam or dry powder. NEVER USE WATER. S45. In case of accident or if you feel unwell, seek medical advice immediately (show label).

S17. Keep away from sources of ignition – No smoking.

The information contained in this safety data sheet does not constitute the users own assessment of workplace risk as required by other health and safety legislation. The provisions of the Health and Safety at Work Act and the COSHH Regulations apply to the use of this product .

16, Other information.

Text of the R phrases listed in Section 2 and 15:

R. Phrase No.**Text.**

| | |
|-------|---|
| 10 | Flammable |
| 20/21 | Harmful by inhalation and in contact with skin. |
| 37/38 | Irritating to respiratory system and skin. |
| 41 | Risk of serious damage to eyes |
| 51/53 | Toxic to aquatic organisms. may cause long term adverse effects in the aquatic environment. |
| 65 | Harmful, may cause lung damage if swallowed |
| 67 | Vapours may cause drowsiness and dizziness |
| | |
| | |
| | |
| | |

The information contained in this data sheet is provided in accordance with the requirements of the CHIP regulations. The product should not be used for purposes other than in Sec 11 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use are outside the suppliers control, the user is responsible for ensuring that the relevant legislative requirements are observed.

The information given herewith is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as a guarantee of technical performance or suitability for particular applications.

Further information can be found in:

The Control of Substances Hazardous to Health Regs. 1999. (S.I. 1999:437),

COSHH Essentials; easy steps to control chemicals, (HSG 193)

The Petroleum (Consolidation) Act,

The Highly Flammable and Liquefied Petroleum Gases Regs 1972 (S.I. 1972: 917),

The Manual Handling Operations Regs 1992 (S I 1992 : 2793),

The Environmental Protection (Duty of Care) Regs. 1992 (S I 1992: 2839),

A Guide to Working with solvents. (INDG 272)

Storage of Packaged Dangerous Substances. (HSG 71)

Chemical Warehousing: Storage of Flammable Liquids in Containers, (HSG 51)

Obtained from H S E Books and / or the Stationery Office (HMSO).