



## MATERIAL SAFETY DATA SHEET MSDS K1

**Product and reference: Products with a label ref K1**  
**DATE OF ISSUE: February 2003 Issue 3**

### 1. IDENTIFICATION OF THE PREPARATION AND COMPANY

Product name and/or code: Products with a K1 label  
Intended use: Powder application by electrostatic spraying  
Name, full address and Valspar, 95 Aston Church Road, Nechells, Birmingham, B7 5RQ  
Telephone number: 0121 322 6900  
Emergency number: See above

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Substances presenting a health hazard within the meaning of the Chemicals (Hazard Information and Packaging for Supply) Regulations:-**

	NAME	CONC. RANGE	SYMBOL LETTER	R-PHASES (*)
K1	Trimellitic acid triglycidylester	1 to 5%	Xi	R36/38 – R43

(\*) for full text see Section 16

### 3. HAZARDS IDENTIFICATION

This product contains Trimellitic acid triglycidylester and is classified as an irritant. It is irritating to the eyes and skin and may cause sensitisation by skin contact.

### 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 the 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 15 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 solvent or thinners.

#### INGESTION:

If accidentally swallowed, obtain medical attention. Keep at rest. Do **NOT** induce vomiting.

## 5. FIRE FIGHTING MEASURES

### Extinguishing media:

Recommended: alcohol resistant foam, CO<sub>2</sub> blanket, water spray/mist

Not to be used: high pressure inert gas (e.g. CO<sub>2</sub>), water jets

### 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 watercourses.**

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## 6. ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing dust. Refer to protective measures list in Sections 7 and 8. Contain and collect spillages with an electrically protected vacuum cleaner or by wet brushing and place in a closed container for disposal in accordance with the waste regulations (see Section 13). Do not use a dry brush as dust clouds or static can be created. Do not allow to enter drains or watercourses.

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 Environmental Agency.

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## 7. HANDLING AND STORAGE

**Persons with a history of respiratory problems or allergic responses should only be exposed to, or handle, this product under appropriate medical supervision.**

### HANDLING:

**Skin contact constitutes the most pronounced hazard. Persons with a history of skin sensitisation problems should only be employed in processes in which this product is used under appropriate medical supervision.**

Precautions should be taken to prevent the formation of dusts in concentrations above explosive or occupational exposure limits.

Electrical equipment and lighting should be protected to appropriate standards and to prevent dust coming into contact with hot surfaces, sparks or other ignition sources.

Keep the container tightly closed. Exclude sources of heat, sparks and open flame.

Avoid the inhalation of dusts.

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

For personal protection see Section 8.

Always keep in containers made of the same material as the supply container.

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

The product may charge electrostatically. Use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be electrically conductive.

The Manual Handling Operations Regulations may apply to the handling of containers of this product. Refer to the guide weight indicated on the container when carrying out assessments.

### STORAGE:

Observe the label precautions. Store between 5° and 25°C in a dry well ventilated place away from sources of heat, ignition and direct sunlight. Prevent unauthorised 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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

### ENGINEERING MEASURES:

Avoid the inhalation of dusts. 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 dusts below the relevant occupational exposure limit, suitable respiratory protective equipment should be worn (see 'personal protection' below).

### EXPOSURE LIMITS:

Coating powders should be treated as nuisance dusts and the general 8 hour time weighted average, occupational exposure standards for dusts are:

Inhalable dusts	10 mg/m <sup>3</sup>
Respirable dusts	4 mg/m <sup>3</sup>

### PERSONAL PROTECTION

All ppe, including rpe, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

### RESPIRATORY PROTECTION:

Suitable 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 limit and engineering controls and methods cannot reasonably be improved.

### HAND PROTECTION:

Where skin exposure may occur, advice should be sought from 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 exposure to dusts should be worn when there is a likelihood of exposure.

### SKIN PROTECTION:

Skin protection should conform with EN 340. Cotton or cotton/synthetic overalls or coveralls are normally suitable. Care should be taken in the selection of protective clothing to ensure that inflammation and irritation of the skin at the neck and wrists through contact with the powder is avoided.

Regular skin inspection of users of this product is recommended.

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

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	fine powder
Specific gravity:	1.2 – 1.9
Solubility in water:	insoluble
Minimum ignition temp:	400°C
Minimum ignition energy:	5-20 mJ
Minimum explosible concentration level (LEL):	20 – 70 g.m <sup>-3</sup>

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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.

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## 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.

Coating powders can cause localised skin irritation in folds of the skin or in contact with tight clothing. The Trimellitic acid triglycidylester has skin sensitising properties. Cases of hypersensitivity may occur.

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## 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 not classified as dangerous for the environment.

The product should not be allowed to enter drains of watercourses 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 into drains or watercourses 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 Environmental Agency whether special waste regulations apply).

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## 14. TRANSPORTATION 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 accident or spillage.

The product is not classified as dangerous for carriage.

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## 15. REGULATORY INFORMATION

The product is classified and labelled for supply according to the requirements of the Chemicals (Hazard information and Packaging for Supply) Regulations. It is therefore labelled as follows:-

This product contains a Trimellitic acid triglycidylester and is classified as an IRRITANT.

R36/38	Irritating to eyes and skin
R43	May cause sensitisation by skin contact
S24	Avoid contact with skin.
S36	Wear suitable protective clothing.
S37	Wear suitable gloves

The information contained in this safety data sheet does not constitute the user's own assessment of the workplace risks as required by other health & safety legislation. The provisions of the Health & Safety at Work Act etc 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

The text of the R phrases contained in section 2:-

R36/38	Irritating to eyes and skin.
R43	May cause sensitisation by skin contact.

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

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 of the product 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 safety 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 application.

Further information and relevant advice can be found in:

The Control of Substances Hazardous to Health Regulations 1999 (SI 1999: 437)

COSHH Essentials: easy steps to control chemicals. HS(G)193. Details of available Control Guidance Sheets, which may be relevant to the particular conditions of use, can also be found in HS(G)193.

The Application of Powder Coatings by Electrostatic Spraying (Code of Safe Practice) from the British Coatings Federation (Tel: 01372 360660)

The Manual Handling Operations Regulations 1992 (SI 1992:2793)

Chemical Warehousing: Storage of Packaged Dangerous Substances, HS(G)71

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

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