



SAFETY DATA SHEET



1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation:

Name: M-COAT J RESIN

Company/undertaking identification:

Registered company name: VISHAY MEASUREMENTS GROUP UK LTD
 Address: Stroudly Road Basingstoke Hampshire RG24 8FW ENGLAND
 Telephone: +44 (0) 1256 462131 Fax: +44 (0) 1256 471441
 Email : vmm.us@vishaymg.com

Emergency telephone: (00-1) 703-527-3887.

Association/Organisation: CHEMTREC.

2 - HAZARDS IDENTIFICATION

This product is not classed as flammable. Refer to the recommendations regarding the other products present on the site
 Possibility of skin sensitisation. The preparation may also irritate the skin and prolonged contact may aggravate this effect.
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Preparation classification:


Irritant

| | |
|---------|---|
| R 52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R 43 | May cause sensitisation by skin contact. |

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk phrases appearing in section 3: see section 16.

Hazardous substances present on their own:

(present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)

| INDEX | CAS | EC | Name | Symb. | R: | % |
|-------|------------|----|---|-------|----------------|-----------------|
| | 25036-25-3 | | REACTION PRODUCT OF EPICHLOROHYDRIN AND BISPHENOL A | Xi N | 36/38 43 51/53 | 2.5 <= x % < 10 |

Other substances representing a hazard:

No known substance in this category present.

Substances present at a concentration below the minimum danger threshold:

| INDEX | CAS | EC | Name | Symb. | R: | % |
|--------------|----------|-----------|---------|-------|--|-----------------|
| 601-021-00-3 | 108-88-3 | 203-625-9 | TOLUENE | Xn F | 11 38 48/20 63.G3 65 67 Note(s): 4 | 2.5 <= x % < 10 |

Other substances with occupational exposure limits:

| INDEX | CAS | EC | Name | Symb. | R: | % |
|-------|----------|-----------|----------------------|-------|----|----------------|
| | 471-34-1 | 207-439-9 | CARBONATE DE CALCIUM | | | 10 <= x % < 25 |

4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
 NEVER induce swallowing in an unconscious person.

In the event of exposure by inhalation:

If a large quantity is inhaled, move the patient into the fresh air and keep him/her warm and still.

In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

Refer the patient to an ophthalmologist, in particular if there is any redness, pain or visual impairment.

In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

DO NOT use solvents or thinners.

In the event of swallowing:

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep still. DO NOT induce vomiting.

If swallowed accidentally, call a doctor to assess the need for monitoring and subsequent treatment in hospital. Show him the label.

5 - FIRE-FIGHTING MEASURES

Not relevant.

Special protective equipment for fire-fighters:

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

6 - ACCIDENTAL RELEASE MEASURES**Personal precautions:**

Consult the safety measures listed under headings 7 and 8.

Environmental precautions:

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Methods for cleaning up:

Clean preferably with a detergent, do not use solvents.

7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

Anyone with a history of skin sensitisation must on no account handle such products

Handling:

Handle in well-ventilated areas.

Fire prevention:

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal safety, see §8.

Observe precautions stated on label and also industrial safety regulations

Packages which have been opened must be reclosed carefully and stored in an upright position

Avoid contact of product with the skin and eyes

Prohibited equipment and procedures:

Smoking, eating and drinking are prohibited in premises where the preparation is used

Never open the packages under pressure

Storage:

Keep the container tightly closed in a dry place.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use personal protection equipment as per Directive 89/686/EEC.

Anyone with a history of skin sensitisation must on no account handle such products.

Technical measures:

Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.

If this ventilation is insufficient to maintain the concentration of solvent vapors below the exposure limits, wear breathing apparatus

Exposure limit values per INRS ED 984:

| France | VME-ppm: | VME-mg/m3: | VLE-ppm: | VLE-mg/m3: | Notes: | TMP N°: |
|----------|----------|------------|----------|------------|--------|--------------|
| 108-88-3 | 50 | 192 | 100 | 384 | R3 | 4 Bis, 84, * |

Exposure limit values per 2006/15/CE, 2000/39/EC and 98/24/EC:

| EC | VME-mg/m3: | VME-ppm: | VLE-mg/m3: | VLE-ppm: | Notes: |
|----------|------------|----------|------------|----------|--------|
| 108-88-3 | 192 | 50 | 384 | 100 | Peau |

Exposure limit values (2003-2006):

| Switzerland | VME-mg/m3: | VME-ppm: | VLE-mg/m3: | VLE-ppm: | Temps: | RSB: |
|-------------|------------|-----------|------------|--------------|------------|------|
| 108-88-3 | 190 mg/m3 | 50 ppm | 760 mg/m3 | 200 ppm | 4x15 | R B |
| Germany/AGW | AGW: | AGW: | Faktor: | Bemerkungen: | | |
| 108-88-3 | 50 ml/m3 | 190 mg/m3 | 4(II) | DFG, H, Y | | |
| UK/WELs | TWA: | STEL: | Ceiling: | Definition: | Criterion: | |
| 108-88-3 | 50 ppm | 150 ppm | - | - | - | |
| 471-34-1 | 10 mg/m3 | - | - | - | - | TI |
| UK/OES | TWA: | STEL: | Ceiling: | Definition: | Criterion: | |
| 108-88-3 | 50 ppm | 150 ppm | - | - | - | |
| 471-34-1 | 4 mg/m3 | - | - | - | - | R |
| 471-34-1 | 10 mg/m3 | - | - | - | - | TI |
| ACGIH/TLV | TWA: | STEL: | Ceiling: | Definition: | Criterion: | |
| 108-88-3 | 50 ppm | - | - | - | - | |
| 471-34-1 | 10 mg/m3 | - | - | - | - | |

Respiratory protection:

Where workers encounter concentrations higher than the exposure limits, they must wear suitable, approved masks.

Hand protection:

Protective creams may be used for exposed skin, but they should not be applied after contact with the product.

Due to the solvents present, it is recommended that polyvinyl alcohol or nitrile rubber gloves be worn.

Eye and face protection:

Use eye protectors designed to protect against liquid splashes

Skin protection:

For further information, see § 11 of S.D.S. - Toxicological information.

9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:

| | |
|-----------------|--------|
| Physical state: | paste |
| Color: | Brown. |

Important health, safety and environmental information:

| | |
|-------------------------------------|---------------|
| pH of the substance or preparation: | not relevant. |
|-------------------------------------|---------------|

The pH is impossible to measure or its value is not relevant.

| | |
|------------------------------|---------------------------|
| Boiling point/boiling range: | not specified. |
| Flash point interval: | Flash point > 60°C |
| Flash point: | 69.99 °C. |
| Vapour pressure: | Below 110 kPa (1.10 bar). |
| Density: | > 1 |
| Water solubility: | Insoluble. |
| Vapour density: | >1 (Air=1) |
| Evaporation rate: | <1 (BuAc=1) |

Other information:

| | |
|---|----------------|
| melting point/melting range: | not specified. |
| Self-ignition temperature: | not specified. |
| Decomposition point/decomposition range : | not specified. |
| % VOC: | 3.4 |
| VOC (g/l): | 104 |

10 - STABILITY AND REACTIVITY

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and nitrogen oxide

Materials to avoid:

Keep away from oxidising agents to avoid exothermic reactions.

Hazardous decomposition products:

COx, NOx, SO2...

11 - TOXICOLOGICAL INFORMATION

No data is available regarding the preparation itself.

Exposure to vapors from solvents contained in the preparation beyond the exposure limits stated may produce effects harmful to health, such as: Irritation of mucous membrane and respiratory system, kidneys, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

Prolonged or repeated contact with the preparation may strip the skin of its natural oil and thus cause non-allergic dermatitis on contact and absorption through the epidermis.

Splashes in the eyes may cause irritation and reversible damage

It is generally agreed that substances contained are likely to cause, among certain predisposed subjects, a sensitisation reaction by cutaneous route

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

The product must not be allowed to run into drains or waterways.

Ecotoxicity:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other adverse effects:

Germany: WGK 2 (VwVwS vom 17/05/99, KBws)

13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

Waste:

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

14 - TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2009 - IMDG 2008 - ICAO/IATA 2009).

15 - REGULATORY INFORMATION

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations

In addition directive 2004/73/EC with the 29° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.

This product is not classed as flammable.

Preparation classification:

Irritant

Contains:

| | |
|--|---|
| | REACTION PRODUCT OF EPICHLOROHYDRIN AND BISPHENOL A |
|--|---|

Particular hazards associated with the preparation and safety recommendations:

| | |
|---------|---|
| R 52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R 43 | May cause sensitisation by skin contact. |
| S 24 | Avoid contact with skin. |

| | |
|------|---|
| S 37 | Wear suitable gloves. |
| S 60 | This material and its container must be disposed of as hazardous waste. |

Particular provisions:

Germany: WGK 2 (VwVwS vom 17/05/99, KBws)

16 - OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

Full text of risk phrases appearing in section 3:

| | |
|---------|---|
| R 11 | Highly flammable. |
| R 36/38 | Irritating to eyes and skin. |
| R 38 | Irritating to skin. |
| R 43 | May cause sensitisation by skin contact. |
| R 48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation. |
| R 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R 63.G3 | Possible risk of harm to the unborn child. |
| R 65 | Harmful: may cause lung damage if swallowed. |
| R 67 | Vapours may cause drowsiness and dizziness. |