



# MATERIAL SAFETY DATA SHEET

## Thermal Curable Protective Overcoat

### SECTION 1: Identification of the substance / mixyure and of the company / undertaking

#### 1.1 Product Identifiers

Product name : Thermal Curable Protective Overcoat  
 Brand : DML DM-OC  
 Product codes : DM-OC-6020-S \_ Sample Batch OCTP-001 \_ This MSDS is for product trials  
 REACH No. : Not available. Annual tonnage does not require a registration.

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Scientific research and development, professional use only. Screen Printing Paste

#### 1.3 Details of the supplier of the safety data sheet

Company : Dycotec Materials Ltd  
 Unit 12 Star West,  
 Westmead Drive, Westlea,  
 Swindon, Wiltshire SN5 7SW, UK  
 Telephone : +44 (0) 1788 814025  
 E-mail address : info@dycotecmaterials.com

#### 1.4 Emergency telephone number

Emergency Phone No. : +44 (0) 7495 248908 Only available during office hours

### SECTION 2: Hazards Identification

#### 2.1 Classification of the substance or mixture

Physical hazards :  
 Health hazards : H302; H315; H317; H319; H332  
 Environmental hazarda : H411  
 Physicochemical : Stable. Solidify/Cured by thermal process. Fully cured product residues are generally not regarded as hazardous waste

#### 2.2 Label elements

Pictogram



Signal word : Warning  
 Hazard statements :  
 H302 – Harmful if swallowed  
 H315 – Causes skin irritation  
 H317 – May cause an allergic skin reaction  
 H319 – Causes serious eye irritation  
 H332 – Harmful if inhaled  
 H411 – Toxic to aquatic life with long lasting effects

Precautionary statements :  
 P264 – Wash hand thoroughly after handling.  
 P270 – Do no eat, drink or smoke when using this product.  
 P280 – Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P312 – IF SWALLOWED:Call a POISON CENTER or doctor/physician if you feel unwell.  
 P330 – Rinse mouth  
 P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.  
 P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention.  
 P362 – Take off contaminated clothing and wash before reuse.  
 P261 – Avoid breathing dust/fumes/gas/mist/vapours/spray.  
 P272 – Contaminated work clothing should not be allowed out of the workplace.  
 P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 – If eye irritation persists: Get medical advice / attention  
 P271 – Use only outdoors or in a well-ventilated area.  
 P304+P340+P312 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 Call a POISON CENTER or doctor/physician if you feel unwell

P273 – Avoid release to the environment

P391 – Collect spillage

P501 – Dispose off contents/container in accordance with local/regional/national/international regulations

**2.3 Other hazards**

No data available

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures**

Blended Epoxy Resin; Synonyms:		30 - 60 %
CAS #:	EC #:	
Classification	H315, H317, H319, H411	

Benzyl Alcohol; Synonyms:		4 – 16%
CAS #: 100-51-6	EC #: 202-859-9	
Classification	H302, H332, H319	

Blended Resin Filler; Synonyms:		10 - 20%
CAS #:	EC #:	
Classification		

Terpineol; Synonyms:		10 - 20%
CAS #: 8000-41-7	EC #: 232-268-1	
Classification	H315, H319	

4-Hydroxy-4-methyl-2-pentanone; Synonyms: Diacetone alcohol		10 – 20%
CAS #: 123-42-2	EC #: 204-626-7	
Classification	H319	

Curing promotor ; Synonyms:		1 – 3 %
CAS #:	EC #:	
Classification	H315	

The full text for all Hazard Statements are displayed in Section 16.

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures****General information**

Remove affected person from source of contamination. Remove contaminated clothing. First aid personnel must be aware of own risk during rescue. Consult a physician. Show this safety data sheet to the doctor in attendance.

**Inhalation**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Ingestion**

Never give anything by mouth to an unconscious person. Rinse mouth with plenty of water. Consult a physician

**Skin contact**

Wash off with soap and plenty of water. Consult a physician

**Eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and or in section 11.

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available

**SECTION 5: FIRE-FIGHTING MEASURES**

**5.1 Extinguishing media**

Suitable extinguishing media  
Alcohol-resistant foam. Carbon dioxide. Dry powder.  
Unsuitable extinguishing media for safety reasons: water jet

**5.2 Special hazards arising from the substance or mixture**

Harmful vapours. Carbon dioxide

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary

**5.4 Further information**

The product itself does not burn under normal storage condition.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Wipe up with inert absorbent material and disposal of as hazardous waste. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal see section 13.

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**SECTION 7: HANDLING AND STORAGE**

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**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in cool, dry and well-ventilated place. Store in tightly sealed containers to prevent moisture absorption and loss of volatiles. Excessive heat over long periods of time will degrade the resin. Kept upright to prevent leakage.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**8.1 Control parameters – Components with workplace control parameters**

No occupational exposure limits known.

**8.2 Exposure Controls****Protective equipment****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Eye/face protection**

Use approved safety glasses with side shields. Eyewear complying with an approved standard should be worn if a risk assessment indicate eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Wear protective gloves made of the following material: Nitrile rubber. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Other skin and body protection**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact

### Hygiene measures

Do not smoke in work area. Wash hands thoroughly after handling. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. Contaminated clothing should be placed in a closed container for disposal of decontamination. Warn cleaning personnel of any hazardous properties of the product.

### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3. In confined or poorly ventilated spaces, a supplied air respirator must be worn.

### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

Appearance	Paste
Colour	Clear.
Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting / freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	No data available
Partition coefficient	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	See TDS
Explosive properties	No data available
Oxidizing properties	No data available

### 9.1 Other information

No data available

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## SECTION 10: STABILITY AND REACTIVITY

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### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions. Stable at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

The product can polymerize if the shelf life or storage temperature are greatly exceeded. Heat develops during polymerization. Reacts with peroxide and other radical components.

### 10.4 Conditions to avoid

See section 7 – Handling and storage

### 10.5 Incompatible materials

Strong oxidizing agents, Strong acids. Strong alkalis. Peroxides. Amines

### 10.6 Hazardous decomposition products

Does not decompose when used and stored as recommended.

Other decomposition products - no data available

In the event of fire - see section 5

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### Acute toxicity:

LD50 rat (oral): > 2000 mg/kg

LD50 rat (dermal): >2000 mg/kg

LD50 rat (inhalation): 4h not determined

This product has not been tested. The statement has been derived from the properties of the individual components.

### Skin corrosion/irritation:

Skin-Rabbit; Irritating to skin 4 hour;

This product has not been tested. The statement has been derived from the properties of the individual components.

**Serious eye damage/eye irritation:**

Rabbit: Irritant

This product has not been tested. The statement has been derived from the properties of the individual components.

**Respiratory or skin sensitization:**

Buehler test guinea pig: skin sensitizing

This product has not been tested. The statement has been derived from the properties of the individual components.

**Germ cell mutagenicity:**

The substance was not mutagenic in bacteria. The substance was mutagenic in various cell culture test systems; however, these results could not be confirmed in test with mammals. The product has not been tested. The statement has been derived from the properties of the individual components.

**Carcinogenicity:** No data available**Reproductive toxicity:** No data available**Specific target organ toxicity – single exposure:**

A single exposure may have relevant toxic effects on organs named in section 2 of this safety data sheet

**Specific target organ toxicity – repeated exposure:**

After repeated exposure the prominent effect is local irritation. The product has not been tested. The statement has been derived from the properties of the individual components.

**Aspiration hazard:** No data available**Signs and Symptoms of Exposure:** No data available**Additional Information:** No data available.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**Ecotoxicity**

Do not empty into drains, soil or bodies of water. Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

**12.1 Toxicity**

no data available

**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

no data available

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**13.1 Waste treatment methods****General Information**

When handling waste, the safety precautions applying to handling of the product should be considered. Do not dump into any sewers, on the ground, or into any body of water. Not to be disposed of together with household waste. Any disposal practice must be in compliance with all local and national laws and regulations. Handle and dispose contaminated packages in the same way as the product itself. Fully cured product residues are generally not regarded as hazardous waste.

**Disposal methods**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

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**SECTION 14: TRANSPORT INFORMATION**

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**14.1 UN number**

ADR/RID	IMDG	IATA
UN3082	UN3082	UN3082

**14.2 UN proper shipping name**

ADR/RID	IMDG	IATA
Environmentally Hazardous Substance, Liquid, N.O.S. : contains - Epoxy resin		

**14.3 Transport hazard class(es)**

ADR/RID	IMDG	IATA
9, EHSM		

**14.4 Packaging group**

ADR/RID	IMDG	IATA
III		

**14.5 Environmental hazards**

ADR/RID	IMDG Marine pollutant	IATA
yes	yes	yes

**14.6 Special precautions for user**

Read safety instructions, SDS and emergency procedures before handling

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**SECTION 15: REGULATORY INFORMATION**


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This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

no data available

**15.2 Chemical Safety Assessment**

no data available

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**SECTION 16: OTHER INFORMATION**


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**General Information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is finished without warranty and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

This is an experimental product. This safety data sheet is for product trials only!

**Hazard statements in full**

H302 – Harmful if swallowed

H315 – Causes skin irritation

H317 – May cause an allergic skin reaction

H319 – Causes serious eye irritation

H332 – Harmful if inhaled

H411 – Toxic to aquatic life with long lasting effects