



# MATERIAL SAFETY DATA SHEET

PRODUCT NUMBER: 11 10 39 (part of Kit 11 10 41 and 11 10 49)

## SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

### 1.1 Product identifier

PRODUCT: Tri-Hard Powder  
Product group: investment resin

### 1.2 Recommended use of the chemical and restrictions on use

No further relevant information available.

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

SUPPLIER: METPREP LTD.  
Unit 1, Falkland Close  
Charter Avenue  
COVENTRY CV4 8AU  
CONTACT: sales@metprep.co.uk

### 1.4 Emergency telephone number

TELEPHONE: 024 7642 1222

## SECTION 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008  
The product is not classified according to the CLP regulation.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Additional information:

Contains dibenzoyl peroxide, methyl methacrylate. May produce an allergic reaction.  
Safety data sheet available on request.

### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## SECTION 3 Composition/information on ingredients

### 3.2 Chemical characterisation: Mixtures

Description: Acryl-resin on base of polymethylmethacrylate

Dangerous components: Void

Additional information For the wording of the listed risk phrases refer to section 16.

## SECTION 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

General information No special measures required.

#### After inhalation

Rinse nose and throat thoroughly with water.

Supply fresh air; consult doctor in case of complaints.

#### After skin contact

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.



#### **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor

#### **After swallowing**

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

No further relevant information available.

## **SECTION 5 FIRE FIGHTING MEASURES**

### **5.1 Extinguishing media**

#### **Suitable extinguishing agents**

Carbon dioxide

Fire-extinguishing powder

Foam

Water haze

**For safety reasons unsuitable extinguishing agents** Water with full jet.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

### **5.3 Advice for firefighters**

**Protective equipment:** No special measures required.

## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

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

Use respiratory protective device against the effects of fumes/dust/aerosol.

**6.2 Environmental precautions:** No special measures required.

**6.3 Methods and material for containment and cleaning up:** Pick up mechanically.

**6.4 Reference to other sections** No dangerous substances are released.

## **SECTION 7 HANDLING AND STORAGE**

**7.1 Precautions for safe handling** Prevent formation of dust.

**Information about fire - and explosion protection:** Protect against electrostatic charges.

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

#### **Storage**

**Requirements to be met by storerooms and receptacles:** Storage between 10 °C and 25 °C.

**Information about storage in one common storage facility:** Store away from foodstuffs.

**Further information about storage conditions:** Store in dry conditions.

**7.3 Specific end use(s)** No further relevant information available.

## **SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION**

**Additional information about design of technical facilities:** No further data; see item 7.

### **8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:** Not required.

**Additional information:** The lists valid during the making were used as basis.

### **8.2 Exposure controls**

#### **Personal protective equipment**

#### **General protective and hygienic measures**

The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Not necessary if room is well-ventilated.

**Protection of hands:** Protective gloves.

**Material of gloves** Butyl rubber, BR

#### **Penetration time of glove material**

0,1 - 0,2 mm

Penetration time: 5 min.



**Eye protection:** Not required.

**Body protection:** Protective work clothing.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1 Information on basic physical and chemical properties</b>	
<b>General Information</b>	
<b>Appearance:</b>	
<b>Form:</b>	Powder
<b>Colour:</b>	Colourless
<b>Odour:</b>	Weak, characteristic
<b>pH-value:</b>	Not determined.
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	110 °C
<b>Boiling point/Boiling range:</b>	undetermined
<b>Flash point:</b>	> 250 °C
<b>Ignition temperature:</b>	> 400 °C
<b>Self-igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour pressure at 20 °C:</b>	Not determined.
<b>Density:</b>	Not determined.
<b>Solubility in / Miscibility with Water:</b>	
	insoluble
<b>Viscosity:</b>	
<b>kinematic:</b>	Not determined.
<b>Solvent content</b>	
<b>Organic solvents:</b>	0.0 %
<b>Solids content</b>	100%
<b>9.2 Other information</b>	No further relevant information available.

## SECTION 10 STABILITY AND REACTIVITY PROPERTIES

**10.1 Reactivity** No further relevant information available

**10.2 Chemical stability**

**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions** No dangerous reactions known

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available

**10.6 Hazardous decomposition products:**

During thermic decomposition, flammable fumes which may irritate the eyes and which consist of methylmethacrylate are developed.

## SECTION 11 TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects**

**Acute toxicity** Based on available data, the classification criteria are not met.

**Primary irritant effect:**

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Additional toxicological information:**

Caused by our manufacturing procedures, there is a content of dibenzoylperoxide of max. 0,8 %.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**SECTION 12****ECOLOGICAL INFORMATION****12.1 Toxicity**

**Aquatic toxicity:** No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

**Additional ecological information:**

**General notes:** Generally not hazardous for water.

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects** No further relevant information available.

**SECTION 13****DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Recommendation**

On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.

<b>· European waste catalogue</b>	
07 01 13	Waste plastic

**Uncleaned packaging:****Recommendation:**

Packagings that may not be cleansed are to be disposed of in the same manner as the product..

**SECTION 14****TRANSPORT INFORMATION**

<b>14.1 UN-Number</b> <b>ADR, IMDG, IATA</b>	Void
<b>14.2 UN proper shipping name</b> <b>ADR, AND, IMDG, IATA</b>	Void
<b>14.3 Transport hazard class(es)</b> <b>ADR, AND, IMDG, IATA</b> <b>Class</b>	Void
<b>14.4 Packing group</b> <b>ADR, IMDG, IATA</b>	Void
<b>14.5 Environmental hazards:</b> <b>Marine pollutant:</b>	No
<b>14.6 Special precautions for user</b>	Not applicable.
<b>14.7 Transport in bulk according to Annex II of</b> <b>MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	No dangerous according to the above specifications
<b>UN "Model Regulation":</b>	Void



## SECTION 15

## REGULATORY INFORMATION

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

Directive 2012/18/EU

**Named dangerous substances - ANNEX I** None of the ingredients is listed.

**National regulations**

**Waterhazard class:** Generally not hazardous for water.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16

## OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing MSDS:** F&E GDF GmbH

**Contact:** Dr. U. Krichbaum

**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

· **\* Data compared to the previous version altered.**

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*

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