



MATERIAL SAFETY DATA SHEET

PRODUCT NUMBER: 11 10 27

SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

SUPPLIER: METPREP LTD.
CURRIERS CLOSE
CHARTER AVENUE
COVENTRY CV4 8AW

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PRODUCT: VARI-SET 10 POWDER

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

- **Chemical characterization: Substances**
- **CAS No. Description:**
Polymethylmethacrylat
- **Description:** Acryl-resin on base of polymethylmethacrylate
- **Dangerous components:** CAS-Nr. 94-36-0 Dibenzoylperoxid < 1%

SECTION 3 SUBSTANCE HAZARD IDENTIFICATION

Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008**
The substance is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** not applicable
- **Information concerning particular hazards for human and environment:** not applicable
- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements**
Contains dibenzoyl peroxide. May produce an allergic reaction.
Safety data sheet available on request.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 4 FIRST AID MEASURES

- **Description of first aid measures**
- **General information** No special measures required.
- **After inhalation** 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** If symptoms persist consult doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.



SECTION 5

FIRE FIGHTING MEASURES

- **Extinguishing media**
- **Suitable extinguishing agents**
Carbon dioxide
Water spray
Foam
Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6

ACCIDENTAL RELEASE MEASURES

- **Personal precautions, protective equipment and emergency procedures**
Avoid eye and skin contact with the substance.
- **Environmental precautions:**
No special measures required.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections** No dangerous substances are released.

SECTION 7

HANDLING AND STORAGE

- **Handling**
- **Precautions for safe handling** Prevent formation of dust.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in dry conditions.
- **Storage class** Not determined
- **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.
- **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.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures** Avoid close or long term contact with the skin.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:** Protective gloves.
- **Material of gloves** Butyl rubber, BRNitrile rubber, NBR
Recommended material strength: ≥ 0.11 mm
- **Penetration time of glove material** Penetration time ≥ 8 h
- **Eye protection:** Safety glasses
- **Body protection:** Not required
- **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses



SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
- **Form:** Powder
- **Colour:** According to product specification
- **Odour:** Nearly odourless
- **Odour threshold:** Not determined.
- **pH-value:** Not applicable.
- **Change in condition**
- **Melting point/Melting range:** 110°C
- **Boiling point/Boiling range:** undetermined
- **Flash point:** > 250°C
- **Flammability (solid, gaseous)** Product is not flammable.
- **Ignition temperature:** >400°C
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Not determined.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Vapour pressure:** Not applicable.
- **Density at 20°C:** 1.16 g/cm³
- **Bulk density at 20°C:** 700 - 750 kg/m³
- **Relative density** Not determined.
- **Vapour density** Not applicable.
- **Evaporation rate** Not applicable.
- **Solubility in / Miscibility with**
- **Water:** Insoluble
- **Segregation coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
- **dynamic:** Not applicable.
- **kinematic:** Not applicable.
- **Organic solvents:** 0.0 %
- **Solids content:** 100.0 %
- **Other information** No further relevant information available

SECTION 10

STABILITY AND REACTIVITY PROPERTIES

Reactivity

- **Chemical stability**
 - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications
 - **Possibility of hazardous reactions** No dangerous reactions known
 - **Conditions to avoid** No further relevant information available.
 - **Incompatible materials:** No further relevant information available.
 - **Hazardous decomposition products:**
- During thermic decomposition, flammable fumes which may irritate the eyes and which consist of methylmethacrylate are developed.



SECTION 11

TOXICOLOGICAL INFORMATION

· Information on toxicological effects

· Acute toxicity:

· Primary irritant effect:

· **on the skin:** No irritant effect.

· **on the eye:** Slightly irritating.

· **Sensitization:** No sensitizing effects known.

· Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

SECTION 12

ECOLOGICAL INFORMATION

· Toxicity

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

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

· Behaviour in environmental systems:

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

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

· Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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

SECTION 13

DISPOSAL CONSIDERATIONS

· 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.

· European waste catalogue

07 02 13 waste plastic

· Uncleaned packaging:

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14

TRANSPORT INFORMATION

· UN-Number

· **ADR, ADN, IMDG, IATA** Void

· UN proper shipping name

· **ADR, ADN, IMDG, IATA** Void

· Transport hazard class(es)

· **ADR, ADN, IMDG, IATA**

· **Class** Void

· Packing group

· **ADR, IMDG, IATA** Void

· Environmental hazards:

· **Marine pollutant:** No

· **Special precautions for user** Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **UN "Model Regulation":** -



SECTION 15 REGULATORY INFORMATION

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **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:**

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

Carriage of Dangerous Goods by Road)

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

International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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

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