

MATERIAL SAFETY DATA SHEET TR AidAMID[®] E MoS₂ (PA6+MoS₂)

Section 1. COMPANY AND PRODUCT IDENTIFICATION

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Material Name: TR AIDAMID[®] E MoS₂
PA6 + MoS₂

Section 2. COMPOSITION / INFORMATION ON COMPONENTS

TR AIDAMID[®] products are based on polyamide (PA 6), and can also contain other fillers like glass fibre, carbon fibre, reinforcing materials, pigments, dyes and additives.

The product does not contain any dangerous components.

Section 3. HAZARDS IDENTIFICATION

Emergency Overview

This product is not harmful.

Section 4. FIRST AID MEASURES

Eye contact: If a foreign body (splinter, chip) enters the eye do not rub. Rinse immediately with plenty of water. Seek medical attention.

Skin contact: After contact with molten polymer, immediately cool with cold water for a prolonged time. Remove affected clothing. Do not peel polymer from skin. Cover burns with sterile dressings. Obtain medical attention.

Inhalation: After accidental inhalation of fumes or thermal decomposition products, using self-protection, remove the person from the danger zone and apply artificial respiration if necessary. Seek medical help and keep quiet and warm.

Ingestion: Seek medical attention if large quantities of material have been ingested.

Section 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Water, foam, dry powder, carbon dioxide.

Unsuitable extinguishing media: None known.

Special protective equipment for fire fighting: Wear self contained breathing apparatus.

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Additional advice: This product ignites in a flame and continues to burn on removal of the source. With thermal decomposition toxic and combustible gasses and steam are released. There is a danger of the fire spreading through spontaneous ignition of the gaseous decomposition products. Molten product must therefore be cooled with water. Water used to extinguish the fire and fire remainders must be collected. Fire hydrants must be controlled and water disposed of, in accordance with local regulations.

Section 6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up: Mechanical.

Environmental precautions: Before entry of swarf waste to sewage it should be mechanically cleaned of product remainders.

Section 7. HANDLING AND STORAGE

General advice: Avoid overheating of material by improper handling and also avoid dust generation.

Technical measures: For mechanical operations local extraction / ventilation is recommended to ensure that less than the 8.1 limit is achieved. Where dust is produced, measures must be taken to avoid static electricity discharge.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Guidelines for materials: General dust limit value: Inhalable dust: 10 mg/m³
Respirable dust: 6 mg/m³

Respiratory protection: During dusty operations use respiratory protection (dust mask P2).

Eye protection: For mechanical operations wear safety glasses with side pieces.

Skin protection: Skin protection should be used (barrier cream). Persons sensitive to glass fibre should wear leather protective gloves. For mechanical processing of glass fibre reinforced products loose fitting, tight work clothes should be worn.

Work / hygiene practices: General industrial hygiene regulations are to be observed. Wash hands before breaks and at the end of workday. Do not eat, drink or smoke in the workplace.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Solid (semi finished or finished parts).

Colour: Various, dependent on colourant.

Odour: Odourless.

Density (20°C): 1,13 - 1,56 g/cm³

Melting point: 220°C

Decomposition temperature: Over 300 °C

Ignition temperature: Over 400 °C

Explosion limits: Not applicable

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Solubility (20°C): Insoluble in water, In organic solution applications insoluble.

Section 10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions of use, storage and transportation.

Conditions to avoid: Temperatures > 300 °C (Start of the thermal decomposition).

Incompatibility with other materials: Concentrated or strong oxidizing acids (e.g. concentrated sulphuric acid).

Hazardous decomposition products: With carbonization and incomplete combustion toxic gasses develop, predominantly carbon dioxide and carbon monoxide. In addition nitric oxide, amine, ammonia, ε-caprolactum, nitrile, aliphatic and aromatic hydrocarbons, aldehyde, hydrogen cyanide, sulphur dioxide can be generated, as well as small quantities of ketone and acids.

Additional information: None.

Section 11. TOXICOLOGICAL INFORMATION

With proper use and in accordance with regulations there are no known dangers to health.

Contact with molten product can cause burns.

With mechanical operations free glass fibre or dust can cause skin, respiratory and eye irritation. By following the rules there is little or no likelihood of inhaling fibre.

Section 12. ECOLOGICAL INFORMATION

Because of insolubility in water separation by filtration or sedimentation is possible.

Section 13. DISPOSAL CONSIDERATIONS

Uncontaminated product can be recycled.

If no use is possible, product waste can, in accordance with official local regulations, be mixed with household waste or incinerated in an appropriate place.

Waste product code No. for uncontaminated product (European waste catalogue): 20 01 39

Section 14. TRANSPORTATION INFORMATION

Not a hazardous material for DOT shipping.

Section 15. REGULATORY INFORMATION

No warning necessary.

Section 16. OTHER INFORMATION

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This material safety data sheet is also valid for TR AidAMID® E / TR AidAMID® E + GLASS FIBRES / TR AidAMID® E MOS₂

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