



Safety Data Sheet as per 91/155/EWG

1. Description of compound, preparation and company

Product details**Brand name:** amasan Thermal Compound T12**Manufacturer / Supplier****Address:** Jürgen Armack GmbH
Oststraße 104, 22844 Norderstedt
Telephone: +49/40/5221036**Emergency:** +49/40/5221038

2. Details of compound / components

Chemical characteristics: Pasty mixture of silicon

Percentage:	CAS-No.	EINECS-No.	Symbol	R-Sentences
> 65 % zinc oxide	1314-13-2	215-222-5	N-Dangerous to environment	50/53

3. Possible risks

Description of risk: N – Dangerous to environment**for human beings and environment:**

Very toxic for water organisms, can have harmful effects in waters in the long term

4. First-aid-measures

After inhalation: Not necessary.**After skin contact:** Not necessary.**After eye contact:** Not necessary.**After swallow up:** Not necessary.

5. Measures for fire fighting

Suitable extinguishers: carbon dioxide, foam, dry powder or water spray spurt. Containers subjected to the fire can be cooled with sprayed water.**Unsuitable extinguishers:** ./.**Special danger through the compound, its combustion products or created gases:** ./.**Special measures at fire fighting:** Bear respirator independent from environmental atmosphere and protection clothes. Cool containers with sprayed water also after fire is extinguished. Fix measures for evacuation/barrier. Obey local emergency plan.**Dangerous combustion products:** silicon dioxide, carbon dioxide and traces of incompletely burnt hydrocarbon. At thermal decomposition formaldehyde may be built. Metal compositions.

6. Measures at unintended release

Precautionary measures for persons: Bear protection clothes.**Precautionary measures for environment:** Avoid expansion or penetration into sewerage systems, ditches and waters.**Procedure for cleaning:** Scrape off and give into container with cover. The leaked out product leads to extreme danger of sliding.

7. Application and storage

Application: Avoid contact with eyes.**Requirements for store-rooms and containers:** Do not store together with oxidizing agents.



8. Exposition limitation and personal protection equipment

Additional advices for design of technical installation: see item 7

Components with working place related limits to be supervised:

Description	CAS-no.	limits
Zinc oxide	1314-13-2	5 mg/m ³ MAK alveole passing percentage

Personal protection equipment:

General protection and hygienic measures: The usual protection measures for handling of chemicals are to be observed. Wash hands after use, before breaks and especially before eating, drinking and smoking.

Breathing protection:	Not necessary
Hand protection:	Not necessary
Eye protection:	Protection glasses
Body protection:	Working clothes

Additional remarks:

For further information regarding handling of silicon please refer to the directions for use of silicon material issued by silicon industry (www.SEHSC.com).

9. Physical and chemical characteristics

Appearance:	Condition:	pasty
	Colour:	white
	Smell:	without
Flash point:	> 101°C (closed box)	
Danger of explosion:	none	
Lower explosion limit (UEG):	n.a.	
Upper explosion limit (OEG):	n.a.	
Density at 20°C:	2,0 g/cm ³	
Solubility in water at 20°C:	insoluble	

10. Stability and reactivity

Thermal decomposition:	No thermal decomposition at use as intended.
Dangerous decomposition products:	see item 11
Substances to be avoided:	can react with strong oxidants
Conditions to be avoided:	none

11. Details to toxicology

At eye contact:	Can lead to temporary uneasiness
At skin contact:	harmful effects not to be expected.
At breathing in:	harmful effects not to be expected.
At swallow up:	harmful effects not to be expected.

Additional remarks for health:

In case that at presence of air this product will be heated up to more than 150°C small quantities of formaldehyde vapours may be set free. At air concentration of less than 1 ppm formaldehyde vapours are harmful at breathing in and lead to irritations of eyes and air passages.

12. Details to ecology

Environmental behaviour and spreading: Firm material insoluble to water.

Ecological toxicological effects: Very toxic for water organisms, can lead to harmful effects in waters in the long term. Due to the physical form and the water insolubility of the product the biological disposal, however, can be neglected.

Effects in sewage plants: No negative effects on bacteria to be expected.



13. Advices for disposal

Product: Dispose as hazardous waste
Additional details: Disposal only by authorized waste disposers.

14. Regulations of transportation

Over land ADR/RID + GGVS/GGVE: Environmentally hazardous substances, firm, n.o.s.
UN-Number: 3077
ADR/RID + GGVS/GGVE-class: 9, ADR danger label model no. 9
Digit and letter: 90GM6-III
Packing group: III

Sea IMDG/GGVSee: No hazardous substance.
Air ICAO-TI and IATA-DGR: No hazardous substance.

15. Regulations

Mark as per EEC-regulations:

Identifying letter and description of risk of the product: N-Dangerous to environment

R-sentences:

R50/53 Very toxic for water organisms, can have harmful effects in waters in the long term

S-sentences:

S57 Use suitable container in order to avoid contamination of environment.

S60 Dispose this product and its container as hazardous waste.

Class of water endangering (WGK): water endangering (WGK 2)

16. Additional details

The details given in this safety data sheet are showing the current knowledge about our product. The safety data sheet is describing the product with regard to the application and the safety relevant requirements. No obligatory promises about contractual agreed product characteristics are given with this.