

1 Identification of substance:

- **Product details:**

- **Trade name:** Plast 2000

- **Article number:** 4/11

- **Application of the substance / the preparation**

Sealing

Casting agent

- **Manufacturer/Supplier:**

SPINNER GmbH

Erzgiessereistr. 33

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Tel.: +49 (0)89 12601 - 0

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- **Information department:** E-mail: w.loewe@spinner.de

- **Emergency information:**

Poisons Information Centre Munich



Tel: 01149/89/19240

2 Composition/Data on components:

- **Chemical characterization**

- **Description:** Polydimethylsiloxane with inorganic fillers and aminosilane as curing agent

- **Dangerous components:**

471-34-1 calcium carbonate	25-50%
15901-40-3 N,N',N''-tricyclohexyl-1-methylsilanetriamine	2.5-10%
Danger:  3.1.O/3, 3.1.D/3;  3.2/1A	
Warning: 2.6/4	

3 Hazards identification

- **Hazard description:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**

Irritating to eyes and skin.

- **Classification system**

The classification was made according to the latest editions of international substances lists, and expanded upon data available from company and literature.

- **GHS label elements**



Warning

3.2/2 - Causes skin irritation.

3.3/2A - Causes serious eye irritation.

- **Prevention:**

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

- **Response:**

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see label).

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

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Take off contaminated clothing and wash before reuse.

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4 First aid measures

- **General information** In case of indisposition consult a physician and present this leaflet.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact**
Remove from the skin with cloth or paper. Then rinse the affected parts with water and soap.
- **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.
Seek immediate medical advice.

5 Fire fighting measures

- **Suitable extinguishing agents**
Use fire fighting measures that suit the environment.
CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:**
Ensure adequate ventilation.
Pick up mechanically.
Dispose of the collected material according to regulations.
- **Additional information:**
By-products are released by a reaction with atmospherical humidity. See chapter 8.

7 Handling and storage

- **Handling**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
No special requirements.
Protect product from frost.
According to the water hazard class (see chapter 12) the specific regulations of the different countries concerning stocking of water affecting substances must be observed.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

8 Exposure controls and personal protection

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

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• **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

471-34-1 calcium carbonate

PEL 15* 5** mg/m³

*total dust **respirable fraction

REL 10* 5** mg/m³

*total dust **respirable fraction

TLV TLV withdrawn

• **Additional Occupational Exposure Limit Values for possible hazards during processing:**

While curing the following substances are formed and released by a reaction with atmospherical humidity:

108-91-8 cyclohexylamine

REL 40 mg/m³, 10 ppm

TLV 41 mg/m³, 10 ppm

• **Additional information:** The lists that were valid during the creation were used as basis.

• **Personal protective equipment**

• **General protective and hygienic measures**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

• **Breathing equipment:** Not necessary if room is well-ventilated.

• **Protection of hands:**

Protective gloves.

After use of gloves apply skin-cleaning agents and skin cosmetics.

• **Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

Natural rubber, NR

• **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

• **Body protection:** Protective work clothing.

9 Physical and chemical properties:

• **General Information**

Form:	Viscous
Color:	Dark grey
Odor:	Amine-like

• **Change in condition**

Boiling point/Boiling range: Not applicable

• **Flash point:** > 151°C (> 304°F)

• **Auto igniting:** Product is not selfigniting.

• **Danger of explosion:** Product does not present an explosion hazard.

• **Density at 20°C (68°F):** 1.37 g/cm³

• **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix

• **pH-value:** Slightly alkaline

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- **Viscosity:**
dynamic at 20°C (68°F): 160000 mPas

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:**
None if stored according to specifications
Beginning at approx. 150 °C small amounts of formaldehyde are formed by an oxidative decomposition.

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
108-91-8 cyclohexylamine
Oral LD50 156 mg/kg (rat)
Dermal LD50 277 mg/kg (rabbit)
- **Primary irritant effect:**
 - **on the skin:** Irritant to skin and mucous membranes.
 - **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:** The product is not biodegradable
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation**
Not cured product may not be disposed of together with household garbage and may not be allowed to reach water bodies. For disposal open containers and let cure the product outside until the reaction is finished totally (that means the smell is disappeared). After that dispose of like the cured product.
Cured product can be deposited together with household garbage. Observe the specific related regulations of local authorities.
- **Uncleaned packagings:**
- **Recommendation:**
Empty containers totally (without drops or grains, cleaned with a spatula). Under observation of the relevant local respectively national regulations re-use or recycling is preferred.

14 Transport information

- **DOT regulations:**
- **Hazard class:** -

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- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Remarks:** No hazardous substance according to ADR/RID respectively GGVS/GGVE
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Remarks:** No hazardous substance according to IMDG respectively GGVSee
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Remarks:** No hazardous substance
- **UN "Model Regulation":** -

15 Regulations

- **TSCA (Toxic substances control act):**
All ingredients are listed.
- **Carcinogen categories**
- **EPA (Environmental Protection Agency)**
108-88-3 toluene: II
- **IARC (International Agency for Research on Cancer)**
108-88-3 toluene: 3
- **NTP (National Toxicology Program)**
None of the ingredients is listed.
- **TLV (Threshold Limit Value established by ACGIH)**
108-91-8 cyclohexylamine: A4
108-88-3 toluene: A4
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.
- **Product related hazard informations:**
The product has been classified and marked in accordance with directives on hazardous materials.
Observe the general safety regulations when handling chemicals
- **Hazard symbols:**
Xi Irritant
- **Risk phrases:**
Irritating to eyes and skin.
- **Safety phrases:**
Avoid contact with skin.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable protective clothing, gloves and eye/face protection.
If swallowed, seek medical advice immediately and show this container or label.
- **National regulations**
If nothing other is noted, the following items refer to regulations of the Federal Republic of Germany.
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
According to § 14 GefStoffV the employer must set up a working regulation to inform his employees about the existing hazards while working with this product.

16 Other information:

The material safety data sheet shows the essential physical, toxicological, ecological and safety data of this product as well as it gives recommendations for a safe handling e.g. at storage, usage and transport. The appropriate information shall be used to protect people and environment. The data are

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Material Safety Data Sheet

acc. to ISO/DIS 11014



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based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The consignee of our products must observe existing laws and regulations in his own responsibility even if these are not mentioned in this material safety data sheet.

• Contact:

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• 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 internationale 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

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

• * Data compared to the previous version altered.

USA