

# Safety Data Sheet



according to (EG) No 1907/2006 (REACH)

revised: 2011-03-01

## 1 . Identification of the substance/preparation/company/undertaking

**1.1 Product name:** **Super-fine diamand polishing suspensions  
joke Magic**

Order No: 0 590 401, 0 590 403 bis 405, 0 591 401, 0 591 401-1 und 0 591 402

1.2 Supplier: joke Technology GmbH  
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## 2 . Hazards identification

2.1 danger signification: F highly inflammable

2.2 special directions for man and environment: R 11 highly inflammable

## 3 . Composition/ information on ingredients

3.1 chemical characterization: preparation of organic solvents

3.2 Hazardous constituents -  
EINECS-No. 200-578-6  
Name: Ethanol  
%: 50 – 100  
lettermark: F  
R-phrases: R 11

3.3 Additional information: R-phrases see section 16

## 4 . First-aid measures

4.1 General information: If suspicious symptoms are apparent or if in doubt, seek medical

- 4.1 General information: advice. In the case of unconsciousness, there must be no oral administration.
- 4.2 After inhalation: The patient should inhale fresh air. In case of abnormal breathing or apnea induce mouth to mouth breathing. Keep the patient calm and warm. In the case of unconsciousness, put him in the recovery position and seek medical advice.
- 4.3 After contact with the skin: Immediately remove any clothing which has been contaminated. Clean wetting skin with water and soap or with suitable detergent. Do not use solvents or dilutions of solvents.
- 4.4 After eye contact: Remove contact lenses, keep eyelids open and rinse with clean water for at least 10 minutes. Get medical assistance.
- 4.5 After swallowing: Get medical assistance immediately. Keep the patient calm. Do not initiate vomiting!
- 4.6 Information for the doctor: In the case of swallowing or vomiting the agent may enter the lungs. Danger of pneumonia, retardation of the CNS, danger of pulmonary oedema. The following symptoms may occur: shortage of breath, headache, drowsiness, vertigo, loss of consciousness, nausea.

## 5. Fire-fighting measures

- 5.1 Suitable extinguishing agents: Foam (resistant to alcohol), carbon dioxide, powder or water spray
- Extinguishers which are not recommended for safety reasons: Water jet
- 5.2 Particular danger from the agent or its preparation, its products of combustion or gases produced: In the case of fire, the product may form toxic pyrolysis products. Inhaling of dangerous decomposition products may cause serious damage to health. Flammable smoke air mixtures are heavier than air and will become distributed above the floor.
- 5.3 Special protective equipment for fire fighting: Use protective equipment resistant to solvents. Use a breathing mask, if necessary.
- 5.4 Additional information: Any closed containers near the source of the fire should be cooled by spraying with water. Prevent fire water from getting into sewage water system.

## 6 . Accidental release measures

- 6.1 Precautionary measures for persons: Personal precautions: Keep away from sources of ignition, ventilate the room. Do not inhale vapours. Observe preventive measures (see chapters 7 and 8).
- 6.2 Precautionary measures for the environment: Prevent the product from getting into sewage systems. In the event of contamination of rivers, lakes, drainage channels, soil or plants advise the competent authorities, in accordance with

- 6.2 Precautionary measures for the environment      applicable local regulations.
- 6.3 Cleaning, removal:      Stop any spillage from spreading using a non-inflammable absorbent (e.g. Ecodyr). Collect it according to local regulations in containers provided for this purpose (see chapter 13). Preferably clean with detergents, do not use solvents.

## 7 . Handling and storage

### 7.1 Handling

- Information on safe handling:      Prevent the formation of inflammable and explosive vapours from solvents in the air and prevent limit values for the air being exceeded. Only use the material in places where open flame, fire and other sources of ignition are not present. The material may charge electrostatic. By decanting use grounded piping only. It is inadvisable to wear antistatic clothes and footwear. Avoid contact with eyes and skin. Do not inhale vapour, spray fog or swarf. Do not eat, drink or snuff when using the product. For personal protective equipment, see chapter 8. Observe legal safety regulations. Wash your hands before pauses in work and after the end of work. Use spark proof tools.

- 7.2 Information on fire and explosion protection:      Vapours from solvents are heavier than air and will become distributed above the floor. Vapours may form an explosive mixture with air.

### 7.3 Storage

- Requirements on storage rooms and containers:      If as defined in the Betriebs-sicherheitsverordnung (BetrSich V) [German ordinance on industrial safety and health] the product is highly inflammable or inflammable or has been classified under the terms of the former VbF (see chapter 15), the electrical equipment must comply with the provisions of DIN VDE 0165. Floors must comply with "Richtlinien für die Vermeidung von Zündgefahren infolge elektrostatischer Aufladungen" (BGR 132) [Guidelines for the avoidance of the dangers of ignition due to electrostatic charging]. Containers must be kept tightly closed. Do not empty containers by applying pressure to them, they are not designed to withstand pressure! No smoking. Access is forbidden to unauthorized persons. Any containers, which have been opened must be tightly closed and stored upright to avoid the possibility of leakage.

- 7.4 Combined storage instruction:      Do not store together with acid and alkaline materials or with oxidants.

- 7.5 Other storage instructions:      Always store the product in containers, which are the same as the original container. Observe the instructions on the label. Store at room temperature in a dry and well ventilated room. Protect from heat and direct sun radiation. Keep away from sources of ignition.

VCI class of storage 3 A

## 8 . Exposure controls/personal protection

- 8.1 Additional information on technical safety measures: Make sure that the room is well ventilated. This may be achieved by a local extraction system. If the aerosol and solvent smoke concentration exceeds the limit values for the air, wear a breathing mask approved for this purpose.
- 8.2 Components, workplace-related limiting values which must be monitored:
- |              |           |
|--------------|-----------|
| EINECS no.:  | 200-578-6 |
| Designation: | Ethanol   |
| Type:        | AGW       |
| Value:       | 500       |
| Units:       | ppm       |
- 8.3 Additional information: The above values have been taken from TRGS 900 or TRGS 901 or from the VCI table with workplace guiding values applicable at the time of preparation of this safety specification sheet.
- 8.4 Personal protective equipment
- Breathing mask: If the solvent concentration exceeds the limit values for the air for an extended period of exposure, wear a breathing mask approved for this purpose. A list of certified breathing masks can be obtained from the Employers Liability Insurance Association (ref. no. BGI 693). In the case of short-time exposure or low concentration, use a breathing filter (gas filter A2, brown, organic gases and vapours).
- 8.5 Hand protection:
- Observe the guidelines issued by the Employers Liability Insurance Association "Use of protective gloves". Gloves for protection against chemicals tested according to EN 374 are suitable. For short-time contact with the constituents of the product (e.g. as protection against splashes) it is recommended that protective gloves made from butyl rubber with a minimum material thickness of 0.4 mm, minimum penetration time > 480 min, are used. In the event of substantial wetting with solvents the protective gloves should be changed immediately. Protective gloves should have been tested for their fitness for the specific case (e.g. mechanical resistance, compatibility with the product).
- The manufacturer's instructions and information concerning use, storage, care and replacement of protective gloves must be observed. In the case of damage or wear, protective gloves must be immediately replaced. Operations should be planned so that gloves are not used constantly. It is recommended that skin protection products, e.g. Lanex are used.
- 8.6 Eye protection: Use goggles to protect the eyes against splashes.
- 8.7 Body protection: Wear antistatic clothes of natural fibre or heat-resistant synthetic fibre.
- 8.8 Protection and hygiene: After contact, clean the skin thoroughly with water and soap or with a suitable detergent. Do not use organic solvents.

## 9 . Physical and chemical properties

### 9.1 Appearance:

Form:	liquid
Colour	gray
Odour:	typical for this type of products

### 9.2 Safety information

Flash point:	14° C
Ignition temperature:	425° C
Boiling point:	78°C Value taken from literature
Lower explosion limit:	3.5 Vol.%
Upper explosion limit:	15.0 Vol.%
Vapour pressure at 20° C:	49 mbar
Density at 20°C:	0.83 g/ml
Viscosity at 23°C:	N/A
Solubility in water:	water mixable
Viscosity at 20°C:	14 s 4 mm DIN 53211

## 10 . Stability and reactivity

10.1 Conditions to be avoided:	Stable if product is stored and used in accordance with recommendations (see paragraph 7)
10.2 Materials to be avoided:	Do not store together with acid and alkaline materials or with oxidants, in order to prevent exothermic reactions.
10.3 Hazardous decomposition products:	No decomposition if product is used properly.

## 11 . Toxicological information

### 11.1 Experience from practical application

Other observations:	Inhaling of solvents above the limit value for air may cause damage to health, e.g. irritation of mucous membranes and the respiratory tract, damage to the liver, the kidneys and the CNS. Signs are headache, vertigo, tiredness, amyosthenia, drowsiness and in serious cases loss of consciousness. Solvents may cause one of the above effects through skin absorption. Extended or repeated contact with the product leads to degreasing of the skin and may cause non-allergic skin damage (contact dermatitis) and/or absorption of harmful substances, Splashes of the solvent may cause irritation and reversible damage to the eyes.
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11.2 General remarks:	The product as such has not been tested. The preparation has been classified according to the conventional method (calculation method as per EU guideline 1999/45/EC, latest version) and taking account of the toxicological dangers (for details see chapters 2 and 15).
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## 12 . Ecological information

12.1 Degree of water contamination: 1 (Mixing rule as per app. 4 of VwVwS)  
Prevent the product from getting into sewage systems.

## 13 . Disposal considerations

13.1 Product: Prevent the product from getting into sewage systems.  
Recommendation:

13.2 European waste specification: 120120  
used abrasives medium which contained dangerous material

13.3 Uncleaned packaging Recommendation: Empty containers should be brought to scrap collection or re-conditioning points. Partially emptied containers are treated as special waste.

## 14 . Transport information

Transport in accordance with regulations for road transport (ADR), rail transport (RID), sea transport (IMDG) and air transport (ICAO/IATA).

### 14.1 Road and rail transport

Class as per ADR/RID: 3  
Hazard label: 3  
UN no: 1993  
Designation of product: flammable liquid N.O.S Ethanol, Particular regulation 640D  
Packaging group: II

### 14.2 Maritime transport

Class as per MDG/GGV-Sea: 3  
Hazard label: 3  
UN Number: 1993  
EmS: F-E, S-UE  
Correct technical designation: flammable liquid N.O.S Ethanol, Particular regulation 640D  
Packaging group: II  
Marine pollutant: n. a.

### 14.3 Air transport

ICAO-TI  
and IATA-DGR ICAO/IATA class: 3  
UN Number: 1993  
Correct technical name: flammable liquid N.O.S Ethanol  
Packaging group: II

## 15 . Regulatory information

### 15.1 Marking in accordance with EU guidelines

Marking letter and term of products danger: 1999/45/EG: F highly inflammable

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contains:	N/A
15.2 R-phrases:	11 highly inflammable
15.3 S-phrases:	16 Keep the product away from sources of ignition. Do not smoke. 7 Keep containers closed
15.4 Special marking of defined preparations:	N/A
15.5 National regulations: Information on restriction of employment:	The laws on maternity and juvenile labour protection must be observed.
Classification VbF:	B
TA-Air:	Chapter 5.2.5 Organic substances The following values in the flue gas must not be exceeded: Mass flow 0.5 kg/h Mass concentration 50 mg/m <sup>3</sup> In both cases indicated as total carbon
Degree of water contamination:	1 (Mixing rule as per app. 4 of VwVwS)
Other regulations, restrictions and ordinances:	-BGR 190 (Rules for the use of respiratory equipment) -BGR 192 (Rules for the use of eye and skin protection) -BGR 195 (Rules for the use of protective gloves)

## 16 . Other information

R-Sets: 11 highly inflammable

The specifications in this safety data sheet correspond to our current store of knowledge and meet national and EC-legislation. The given working conditions of the user, however, are beyond our knowledge and control.

The user is responsible for the observance of all legal regulations that are necessary.

The specifications given in this safety data sheet describe the safety requirements of our product and do not represent any guarantee of product qualities. The specifications in this Safety Data Sheet are necessary according ordinance on Hazardous Substances and the ordinance 1907/2007/EG, TRGS 200, TRGS 220, ADR, WHG.

Legend:

n.a. = not applicable / n.t. = not tested

AGW = Occupational exposure limit value

VbF = ordinance concerning inflammable liquids

MAK = maximal concentration at working- area in mg/m<sup>3</sup> = ppm

BAT = biological working-area tolerance

TRbF - technical rules inflammable liquids

WGK = water contamination class

WGK0 = generally not water contaminating

WGK1 = not heavily water contaminating

WGK2 = water contaminating

WGK3 = heavily water contaminating

