**Date:** 26/03/13

### **HENKEL MAKROFLEX AS**

## MATERIAL SAFETY DATA SHEET

**REVISION DATE: 12.01.2004** PRINT DATE: 26/03/13

### 1. IDENTIFICATION OF THE CHEMICAL AND OF THE MANUFACTURER, IMPORTER OR OTHER UNDERTAKING

1.1 TRADE NAME MAKROSIL GA103 Glass Silicone HENKEL MAKROFLEX AS

MANUFACTURER, IMPORTER OR 1.2

OTHER UNDERTAKING

**ADDRESS** 

11317 Tallinn, Estonia **PHONE** + 372 6 999070 FAX + 372 6 999071

#### 2. **COMPOSITION AND INFORMATION ON INGREDIENTS**

2.1 PRODUCT DESCRIPTION Polydimethylsiloxane + fillers + auxiliaries and

alkoxysilanecross linker

Pärnu mnt. 139 E

2.2 HAZARDOUS INGREDIENTS

CAS number or other code	Name of the ingredient	Conc.	Warning symbol, R phrases and other data on the ingredient
17689-77-9	Triacetoxy(ethyl)silane	2,2 %	C, R34; Xn, R22
4253-34-3	Methyltriacetoxysilane	2,0 %	C, R34; Xn, R22

#### 3. HAZARDS IDENTIFICATION

- 3.1 **EMERGENCY OVERVIEW**
- **EFFECTS OF OVEREXPOSURE** 3.2
- 3.2.1 **EYE CONTACT**
- 3.2.2 **SKIN CONTACT**
- 3.2.3 **INHALATION**
- **INGESTION** 3.2.4
- **MEDICAL CONDITIONS WHICH** 3.3 **MAY BE AGGRAVATED BY CONTACT**
- PRIMARY ROUTE(S) OF ENTRY 3.4
- 3.5 **OTHER**

No hazardous according to Council Directive 1999/45/EC and its subsequent amendments

#### 4. **FIRST AID MEASURES**

- 4.1 **SPECIAL INSTRUCTIONS**
- **INHALATION** Remove to fresh air. 4.2
- **SKIN CONTACT** 4.3 Wipe off and wash with soap and water.
- **EYE CONTACT** Flush with water. 4.4
- No first aid should be needed. 4.5 **INGESTION**
- 4.6 **COMMENTS**

#### FIRE FIGHTING MEASURES 5.

5.1	SUITABLE EXTINGUISHING MEDIA	Carbon dioxide, foam, dry powder or fine water spray.
5.2	EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS	None known
5.3	SPECIAL EXPOSURE HAZARDS IN FIRE	None known.
5.4	SPECIAL PROTECTIVE EQUIPMENT FOR A FIRE	A self-contained respirator and protective clothing should be worn. Keep containers cool with water spray until well after the fire is out. Determine the need to evacuate or isolate the area according to your local emergency plan.
5.5	OTHER INSTRUCTIONS	Hazardous combustion products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.
6.	ACCIDENTAL RELEASE MEASURE	5
6.1 6.2	PERSONAL PRECAUTIONS ENVIRONMENTAL PRECAUTIONS	Wear personal protection equipment. Prevent material from entering surface waters, drains or sewers and open soil.
6.3	METHODS FOR CLEANING UP	Do not flush away with water. Take up mechanically and dispose of according to local/state/federal regulations. Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Clean any slippery coating that remains using a detergent / soap solution or another
		biodegradable cleaner.
6.4	OTHER	
6.4 <b>7.</b>	HANDLING AND STORAGE	
		General ventilation is recommended. Local ventilation is recommended. Avoid skin and
7.	HANDLING AND STORAGE	
<b>7.</b> 7.1	HANDLING AND STORAGE HANDLING	ventilation is recommended. Avoid skin and eye contact. Do not breathe vapour. Do not store with oxidizing agents. Keep container closed and store away from water or moisture.
7. 7.1 7.2	HANDLING AND STORAGE  HANDLING  STORAGE  EXPOSURE CONTROL/PERSONAL  TECHINCAL MEASURES FOR	ventilation is recommended. Avoid skin and eye contact. Do not breathe vapour. Do not store with oxidizing agents. Keep container closed and store away from water or moisture.
7. 7.1 7.2	HANDLING AND STORAGE  HANDLING  STORAGE  EXPOSURE CONTROL/PERSONAL	ventilation is recommended. Avoid skin and eye contact. Do not breathe vapour. Do not store with oxidizing agents. Keep container closed and store away from water or moisture.  PROTECTION  Triacetoxy(ethyl)silane: (17689-77-9) 10 ppm TWA, 15ppm STEL as acetic acid (ACGIH). Methyltriacetoxysilane: (4253-34-3) 10 ppm TWA, 15ppm STEL as acetic acid
7. 7.1 7.2 8. 8.1	HANDLING HANDLING STORAGE  EXPOSURE CONTROL/PERSONAL  TECHINCAL MEASURES FOR EXPOSURE CONTROLS LIMIT VALUES FOR WORKPLACE	ventilation is recommended. Avoid skin and eye contact. Do not breathe vapour. Do not store with oxidizing agents. Keep container closed and store away from water or moisture.  PROTECTION  Triacetoxy(ethyl)silane: (17689-77-9) 10 ppm TWA, 15ppm STEL as acetic acid (ACGIH). Methyltriacetoxysilane: (4253-34-3) 10
7. 7.1 7.2 8. 8.1 8.2	HANDLING HANDLING STORAGE  EXPOSURE CONTROL/PERSONAL  TECHINCAL MEASURES FOR EXPOSURE CONTROLS LIMIT VALUES FOR WORKPLACE AIR  HTP VALUES OTHER INFORMATION OF LIMIT	ventilation is recommended. Avoid skin and eye contact. Do not breathe vapour. Do not store with oxidizing agents. Keep container closed and store away from water or moisture.  PROTECTION  Triacetoxy(ethyl)silane: (17689-77-9) 10 ppm TWA, 15ppm STEL as acetic acid (ACGIH). Methyltriacetoxysilane: (4253-34-3) 10 ppm TWA, 15ppm STEL as acetic acid

in presence of water or moisture, releasing a small amount of acetic acid.	-		
8.3.2 RESPIRATORY PROTECTION  Suitable respiratory protection should be worn if the product is used in large quantities, confined spaces or in other circumstances where the OEL may be approached or exceeded.  8.3.3 HAND PROTECTION  8.3.4 EYE PROTECTION  8.3.5 SKIN PROTECTION  8.3.6 EYE PROTECTION  8.3.7 EYE PROTECTION  8.3.8 EYE PROTECTION  8.3.9 PHYSICAL AND CHEMICAL PROPERTIES  9.1 PHYSICAL STATE, COLOUR AND ODOR  9.2 PHYSICAL STATE, COLOUR AND ODOR  9.3 INFORMATION ON CHANGES IN THE PHYSICAL STATE  9.3.1 BOILING POINT/RANGE  9.3.2 MELTING POINT/RANGE  9.3.3 DECOMPOSITION  TEMPERATURE  9.4 FLASH POINT  9.5 FLAMMABILITY (SOLID/GAS)  9.6 AUTOFLAMMABILITY  9.7 EXPLOSION HAZARD  9.8 EXPLOSIVE LIMITS  (LOWER/UPPER)  9.9 OXIDIZING PROPERTIES  9.10 VAPOUR PRESSURE  9.11 RELATIVE DENSITY  9.12 SOLUBILITY  9.12 IN ORGANIC SOLVENTS  9.13 PARTITION COEFFICIENT (FOR INGREDIENTS): NOCTANOL/WATER  9.14 VISCOSITY  9.15 OTHER INFORMATION  10. STABILITY AND REACTIVITY  10.1 CONDITIONS TO AVOID  10.2 MATERIALS TO AVOID  10.2 MATERIALS TO AVOID  10.2 STABIL TO THE INFORMATION  SUITABLE RESIDER  QUANTITION COEFFICIENT (FOR INGREDIENTS) and Conditions.  Can react with strong oxidizing agents. Cures in presence of water or moisture, releasing a small amount of acetic acid occidents.		PROTECTION AND HYGIENE	
worn if the product is used in large quantities, confined spaces or in other circumstances where the OEL may be approached or exceeded.  R.3.3 HAND PROTECTION Chemical protective gloves should be worn: Buyl rubber. Nitrile rubber. Neoprene rubber. Silver shield(TM). 4H(TM). Regarding glove's breakthrough time contact your chemical protective glove supplier.  R.3.4 EYE PROTECTION SKIN PROTECTION SAfety glasses should be worn. Wear impervious overalls in circumstances where significant skin contact can occur.  9. PHYSICAL AND CHEMICAL PROPERTIES  9.1 PHYSICAL STATE, COLOUR AND ODOR Odour Physical State and odour odour  9.2 physical STATE, COLOUR AND ODOR Odour Physical STATE Bolling Point/RANGE 9.3.1 Bolling Point/RANGE 9.3.2 MELTING POINT/RANGE 9.3.2 MELTING POINT/RANGE 9.3.3 DECOMPOSITION TEMPERATURE 9.4 FLASH POINT EMPERATURE 9.4 FLASH POINT (COLID/GAS) AUTOFLAMMABILITY (SOLID/GAS) AUTOFLAMMABILITY (SOLID/GAS) AUTOFLAMMABILITY (SOLID/GAS) 0.0 DIZING PROPERTIES (LOWER/UPPER) 0.0 DIZING PROPERTIES 1,02 g/cm <sup>3</sup> at 25 °C	832	RESPIRATORY PROTECTION	
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time contact your chemical protective glove supplier.  8.3.4 EYE PROTECTION  8.3.5 SKIN PROTECTION  8.3.5 SKIN PROTECTION  8.3.6 SKIN PROTECTION  9. PHYSICAL AND CHEMICAL PROPERTIES  9.1 PHYSICAL STATE, COLOUR AND ODOR  9.2 pH  9.3 INFORMATION ON CHANGES IN THE PHYSICAL STATE  9.3.1 BOILING POINT/RANGE  9.3.2 MELTING POINT/RANGE  9.3.3 DECOMPOSITION TEMPERATURE  9.4 FLASH POINT  9.5 FLAMMABILITY  9.7 EXPLOSION HAZARD  9.8 EXPLOSIVE LIMITS (LOWER/UPPER)  9.9 OXIDIZING PROPERTIES  9.10 VAPOUR PRESSURE  9.11 RELATIVE DENSITY  9.12.1 IN WATER  1.02 g/cm³ at 25 °C  virtually insoluble  1.02 g/cm³ at 25 °C  virtually insoluble  1.02 g/cm³ at 25 °C  virtually insoluble  1.02 g/cm³ at 25 °C  Stable under normal conditions.  Can react with strong oxidizing agents. Cures in presence of water or moisture, releasing a small amount of acetic acid.	8.3.3	HAND PROTECTION	quantities, confined spaces or in other circumstances where the OEL may be approached or exceeded. Chemical protective gloves should be worn: Butyl rubber. Nitrile rubber. Neoprene rubber. Silver shield(TM).
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			Can react with strong oxidizing agents. Cures in presence of water or moisture, releasing a
PRODUCTS  PRODUCTS	10.3	HAZARDOUS DECOMPOSITION PRODUCTS	See Sec.11
11. TOXICOLOGICAL INFORMATION	11.	TOXICOLOGICAL INFORMATION	

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11.1	ACUTE TOXICITY
11.2	IRRITANCY AND
	CORROSIVENESS

Vapours released during curing may cause eye irritation. On skin contact: Can irritate on prolonged or repeated contact. If inhaled: The vapour is irritating to the mouth, nose and throat. On ingestion: Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may cause digestive discomfort.

11.3 **SENSITIZATION** 

11.4 SUBACUTE, SUBCHRONIC AND PROLONGED TOXICITY

11.5 EMPIRICAL DATA ON EFFECTS
ON HUMANS

11.6 **OTHER** 

Product may emit formaldehyde vapours at temperatures above 150°C in the presence of air. Formaldehyde vapour is harmful by inhalation and irritating to eyes and respiratory system at breathing concentration less than one part per million (1 ppm).

## 12. ECOLOGICAL INFORMATION

## 12.1 **PERSISTENCE IN EVIRONMENT**

Solid material, insoluble in water. No adverse

effect are predicted.

12.1.1 **BIODEGRADATION** 

Silicone content: Biologically not degradable. Organic solvent: Readily biologically

degradable.

12.1.2 CHEMICAL DEGRADATION

12.2 **BIOACCUMULATION** 

12.3 **MOBILITY** 

12.4 TOXIC EFFECTS ON ORGANISMS

12.4.1 AQUATIC TOXICITY
12.4.2 OTHER TOXICITY

No bioaccumulation potential.

Silicone content: in cross-linked state not soluble in water. Easily separable from water by filtration.

### 13. DISPOSAL CONSIDERATIONS

OTHER INFORMATION

### Material

12.5

Recommendation:

Dispose of according to regulations by incineration in a special waste incinerator. Small quantities may be disposed of by incineration in an approved facility. Observe local/state/federal regulations.

## **Uncleaned packaging**

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

# 14. TRANSPORT INFORMATION

14.1 UN NUMBER

14.2 PACKAGING CATEGORY

14.3 **LAND TRANSPORT** 

14.3.1 TRANSPORT CLASS Not restricted

14.3.2 **RISK CODE** 

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14.3.3 14.4 14.4.1 14.4.2 14.4.3 14.5 14.5.1 14.5.2 14.5.3	OTHER INFORMATION AIR TRANSPORT ICAO/IATA	Not restricted  Not restricted
15.	REGULATORY INFORMATION	
15.1	INFORMATION ON THE WARNING LABEL	
15.1.1	LETTER CODE OF THE WARNING SYMBOL AND INDICATIONS OF DANGER FOR THE PREPARATION	S24: Avoid contact with skin; S51: Use only in well-ventilated areas.
15.1.2	NAMES OF INGREDIENTS GIVEN ON THE WARNING LABEL	
15.1.3	R AND S PHRASES	
15.1.5	SPECIAL REGULATIONS ON CERTAIN PREPARATIONS	No ozone depleting chemicals are present or used in manufacture.
15.2	NATIONAL REGULATIONS	asca iii manuracture.
16.	OTHER INFORMATION	
10.1	DUDDOCE OF UCE	
16.1 16.1.1	PURPOSE OF USE EXPRESSED IN WRITING	Sealing of construction elements
16.1.2	CODE FOR PURPOSE OF USE	coaming of contraction contraction
16.2	DIRECTIONS FOR USE	Suitable for filling cracks and joints both indoors and outdoors.
16.3	OTHER INFORMATION	Torrel Teamele tell 1272 44 74024
16.4	ADDITIONAL INFORMATION AVAILABLE FROM	Tanel Toomela, tel: +372 44 71631 e-mail: tanel@makroflex.ee
16.5	SOURCES OF INFORMATION USED IN THE COMPILATION OF THE SAFETY DATA SHEET	

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended.

This does not in any way excuse the user from knowing and applying all the regulations governing his activity, It is the sole responsibility of the user to take all precautions required in handling the product.

The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

This information is not exhaustive.

This does not exonerate the user from ensuring that legal obligations, other than those mentioned, relating to the use and storage of the product, do not exist. This is solely his responsibility.