

HENKEL MAKROFLEX AS

MATERIAL SAFETY DATA SHEET

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

1.1 **TRADE NAME** MAKROSIL SX101 Sanitary Silicone
1.2 **MANUFACTURER, IMPORTER OR OTHER UNDERTAKING ADDRESS** HENKEL MAKROFLEX AS
Pärnu mnt. 139 E
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 alkoxy silanecross linker
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	Triacetoxo(ethyl)silane	2,3 %	C, R34; Xn, R22
4253-34-3	Methyltriacetoxysilane	1,5 %	C, R34; Xn, R22
64742-46-7	Distillates (petroleum), hydrotreated middle	< 17,0 %	
68551-20-2	Alkanes, C13-16, iso	< 6,0 %	Xn, R65

3. HAZARDS IDENTIFICATION

3.1 **EMERGENCY OVERVIEW**
3.2 **EFFECTS OF OVEREXPOSURE**
3.2.1 **EYE CONTACT**
3.2.2 **SKIN CONTACT**
3.2.3 **INHALATION**
3.2.4 **INGESTION**
3.3 **MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT**
3.4 **PRIMARY ROUTE(S) OF ENTRY**
3.5 **OTHER** No hazardous according to Council Directive 1999/45/EC and its subsequent amendments

4. FIRST AID MEASURES

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

5. FIRE FIGHTING MEASURES

5.1 **SUITABLE EXTINGUISHING MEDIA** Carbon dioxide, foam, dry powder or fine water spray. Water can be used to cool fire exposed containers.
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 MEASURES		
6.1	PERSONAL PRECAUTIONS	Wear personal protection equipment.
6.2	ENVIRONMENTAL PRECAUTIONS	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	
7. HANDLING AND STORAGE		
7.1	HANDLING	General ventilation is recommended. Local ventilation is recommended. Avoid skin and eye contact. Do not breathe vapour.
7.2	STORAGE	Do not store with oxidizing agents. Keep container closed and store away from water or moisture.
8. EXPOSURE CONTROL/PERSONAL PROTECTION		
8.1	TECHINCAL MEASURES FOR EXPOSURE CONTROLS	
8.2	LIMIT VALUES FOR WORKPLACE AIR	Distillates (petroleum), hydrotreated middle (64742-46-7) 300 ppm (supplier recommendation). 5 mg/m ³ TWA, 10 mg/m ³ STEL as paraffin oils (ACGIH). Alkanes, C13-16, iso (68551-20-2) 300 ppm (supplier recommendation). Triacetoxylsilane (17689-77-9) 10 ppm TWA, 15ppm STEL as acetic acid (ACGIH). Methyltriacetoxysilane (4253-34-3) 10 ppm TWA, 15ppm STEL as acetic acid (ACGIH).
8.2.1	HTP VALUES	
8.2.2	OTHER INFORMATION OF LIMIT VALUES	
8.3	PERSONAL PROTECTIVE EQUIPMENT	
8.3.1	SPECIAL INSTRUCTIONS FOR PROTECTION AND HYGIENE	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
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	Chemical protective gloves should be worn: Butyl rubber. Nitrile rubber. Neoprene rubber. Silver shield(TM). 4H(TM). Regarding glove's breakthrough time contact your chemical protective glove supplier.
8.3.4	EYE PROTECTION	Safety glasses should be worn.
8.3.5	SKIN PROTECTION	Wear impervious overalls in circumstances where significant skin contact can occur.
9. PHYSICAL AND CHEMICAL PROPERTIES		
9.1	PHYSICAL STATE, COLOUR AND ODOR	Paste with pleasant odour
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 (SOLID/GAS)	
9.6	AUTOFLAMMABILITY	
9.7	EXPLOSION HAZARD	
9.8	EXPLOSIVE LIMITS (LOWER/UPPER)	
9.9	OXIDIZING PROPERTIES	
9.10	VAPOUR PRESSURE	

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9.11	RELATIVE DENSITY	0,97 g/cm ³ at 25 °C
9.12	SOLUBILITY	
9.12.1	IN WATER	virtually insoluble
9.12.2	IN ORGANIC SOLVENTS	
9.13	PARTITION COEFFICIENT (FOR INGREDIENTS) : N-OCTANOL/WATER	
9.14	VISCOSITY	Paste
9.15	OTHER INFORMATION	

10. STABILITY AND REACTIVITY

10.1	CONDITIONS TO AVOID	Stable under normal conditions.
10.2	MATERIALS TO AVOID	Can react with strong oxidizing agents. Cures in presence of water or moisture, releasing a small amount of acetic acid.
10.3	HAZARDOUS DECOMPOSITION PRODUCTS	See Sec.11

11. TOXICOLOGICAL INFORMATION

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 ENVIRONMENT	Solid material, insoluble in water. No adverse effects are predicted.
12.1.1	BIODEGRADATION	Silicone content: Biologically not degradable. Organic solvent: Readily biologically degradable.
12.1.2	CHEMICAL DEGRADATION	
12.2	BIOACCUMULATION	No bioaccumulation potential.
12.3	MOBILITY	
12.4	TOXIC EFFECTS ON ORGANISMS	
12.4.1	AQUATIC TOXICITY	
12.4.2	OTHER TOXICITY	
12.5	OTHER INFORMATION	Silicone content: in cross-linked state not soluble in water. Easily separable from water by filtration.

13. DISPOSAL CONSIDERATIONS

Material

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

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14.3.2	RISK CODE	
14.3.3	NAME ACCORDING TO BILL OF FREIGHT	
14.4	SEA TRANSPORT	
14.4.1	IMDG CLASS	Not restricted
14.4.2	CORRECT TECHNICAL NAME	
14.4.3	OTHER INFORMATION	
14.5	AIR TRANSPORT	
14.5.1	ICAO/IATA	Not restricted
14.5.2	CORRECT TECHNICAL NAME	
14.5.3	OTHER INFORMATION	

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	

16. OTHER INFORMATION

16.1	PURPOSE OF USE	
16.1.1	EXPRESSED IN WRITING	Sealing of construction elements
16.1.2	CODE FOR PURPOSE OF USE	
16.2	DIRECTIONS FOR USE	Suitable for filling cracks and joints both indoors and outdoors.
16.3	OTHER INFORMATION	
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.