

HENKEL MAKROFLEX AS

Date : 26/03/13

HENKEL MAKROFLEX AS**MATERIAL SAFETY DATA SHEET**

REVISION DATE : 01.02.2004

PRINT DATE : 26/03/13

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

1.1 **TRADE NAME** MAKROSIL ROOF SEALANT BA 141
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
E-MAIL makroflex@makroflex.ee

2. COMPOSITION AND INFORMATION ON INGREDIENTS

2.1 **PRODUCT DESCRIPTION** Bitumen-based sealant
2.2 **HAZARDOUS INGREDIENTS**

CAS number or other code	Name of the ingredient	Conc.	Warning symbol, R phrases and other data on the ingredient
064742-95-6	Hydrocarbon solvents (aromatic)	1 – 10 %	N, Xn: R10-37-51/53-65-66-67
000095-63-6	1,2,4-trimethylbensene	1 – 8 %	Xn, N: R10-20-36/37/38-51/53
000108-67-8	Mesitylene	1 – 3 %	Xi, N: R10-37-51/53
000098-82-8	Cumene	0 – 1 %	Xn, N: R10-37-51/53-65
001330-20-7	Xylene	0 – 1 %	Xn: R10-20/21-38

3. HAZARDS IDENTIFICATION

3.1 **EMERGENCY OVERVIEW** Harmful if swallowed.
3.2 **EFFECTS OF OVEREXPOSURE**
3.2.1 **EYE CONTACT** Although no appropriate human or animal data are known to exist, contact with the eyes is likely to be irritating.
3.2.2 **SKIN CONTACT** Not expected to present a significant hazard under anticipated conditions of normal use.
3.2.3 **INHALATION** Overexposure to vapours may result in cough.
3.2.4 **INGESTION** Headache. Shortness of breath.
Swallowing of this material presents some health hazard.
Must not come into contact with food or to be consumed.
3.3 **MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT** None known
3.4 **PRIMARY ROUTE(S) OF ENTRY** Ingestion.

4. FIRST AID MEASURES

4.1 **SPECIAL INSTRUCTIONS**
4.2 **INHALATION** Transfer the patient to the fresh air. Obtain medical attention if breathing difficulty persists.
4.3 **SKIN CONTACT** Remove contaminated clothing and wash all exposed skin area with mild soap and water, followed by rinsing with warm water.
4.4 **EYE CONTACT** Flush the eyes immediately with plenty of water.
4.5 **INGESTION** Do not induce vomiting. Rinse mouth. Call a physician immediately.
4.6 **COMMENTS**

5. FIRE FIGHTING MEASURES

5.1 **SUITABLE EXTINGUISHING MEDIA** Dry chemical. Foam. Carbon dioxide.
5.2 **EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS**

HENKEL MAKROFLEX AS

Date : 26/03/13

5.3	SPECIAL EXPOSURE HAZARDS IN FIRE	May form flammable vapour-air mixture.
5.4	SPECIAL PROTECTIVE EQUIPMENT FOR A FIRE	Do not enter fire area without proper protective equipment, including respiratory protection.
5.5	OTHER INSTRUCTIONS	Flammable. No naked flames. No smoking.

6.	ACCIDENTAL RELEASE MEASURES	
-----------	------------------------------------	--

6.1	PERSONAL PRECAUTIONS	No smoking. Equip cleanup crew with proper protection.
6.2	ENVIRONMENTAL PRECAUTIONS	Notify authorities if product enters sewers or public waters.
6.3	METHODS FOR CLEANING UP	Sweep or shovel spills into appropriate container for disposal. Flush/dilute residue with water.
6.4	OTHER	

7.	HANDLING AND STORAGE	
-----------	-----------------------------	--

7.1	HANDLING	No smoking. May form flammable vapour-air mixture. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
7.2	STORAGE	Store in tightly closed, properly ventilated containers away from heat, sparks, open flame.

8.	EXPOSURE CONTROL/PERSONAL PROTECTION	
-----------	---	--

8.1	TECHINCAL MEASURES FOR EXPOSURE CONTROLS	
8.2	LIMIT VALUES FOR WORKPLACE AIR	
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	
8.3.2	RESPIRATORY PROTECTION	In a poorly ventilated area respiratory mask must be worn. In a long term use a compressed air mask or fresh air mask must be worn.
8.3.3	HAND PROTECTION	Protective gloves needed in case of repeated or prolonged contact.
8.3.4	EYE PROTECTION	Necessary only when liquid could be splashed or sprayed.
8.3.5	SKIN PROTECTION	Protective clothing not absolutely necessary.

9.	PHYSICAL AND CHEMICAL PROPERTIES	
-----------	---	--

9.1	PHYSICAL STATE, COLOUR AND ODOR	Black paste with characteristic 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)	Flammable
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	
9.12.1	IN WATER	Negligible.
9.12.2	FAT SOLUBILITY	
9.13	PARTITION COEFFICIENT (FOR INGREDIENTS) : N-OCTANOL/WATER	
9.14	VISCOSITY	
9.15	OTHER INFORMATION	May form flammable vapour-air mixture.

10.	STABILITY AND REACTIVITY	
------------	---------------------------------	--

10.1	CONDITIONS TO AVOID	No smoking and naked flame.
10.2	MATERIALS TO AVOID	
10.3	HAZARDOUS DECOMPOSITION	None under normal conditions

PRODUCTS

11. TOXICOLOGICAL INFORMATION

- 11.1 ACUTE TOXICITY
- 11.2 IRRITANCY AND CORROSIVENESS
- 11.3 SENSITIZATION
- 11.4 SUBACUTE, SUBCHRONIC AND PROLONGED TOXICITY
- 11.5 EMPIRICAL DATA ON EFFECTS ON HUMANS
- 11.6 OTHER

12. ECOLOGICAL INFORMATION

- 12.1 PERSISTENCE IN ENVIRONMENT
- 12.1.1 BIODEGRADATION None
- 12.1.2 CHEMICAL DEGRADATION None
- 12.2 BIOACCUMULATION None.
- 12.3 MOBILITY
- 12.4 TOXIC EFFECTS ON ORGANISMS
- 12.4.1 AQUATIC TOXICITY
- 12.4.2 OTHER TOXICITY
- 12.5 OTHER INFORMATION

13. DISPOSAL CONSIDERATIONS

Transfer full containers to an institution for dangerous waste. Dispose cured foam as plastic waste.

14. TRANSPORT INFORMATION

- 14.1 UN NUMBER 3175
- 14.2 PACKAGING CATEGORY II
- 14.3 LAND TRANSPORT
- 14.3.1 TRANSPORT CLASS 4.1
- 14.3.2 RISK CODE Xn
- 14.3.3 NAME ACCORDING TO BILL OF FREIGHT MAKROFLEX BITUMEN
- 14.4 SEA TRANSPORT
- 14.4.1 IMDG CLASS
- 14.4.2 CORRECT TECHNICAL NAME
- 14.4.3 OTHER INFORMATION
- 14.5 AIR TRANSPORT
- 14.5.1 ICAO/IATA
- 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 Xn : Harmful
- 15.1.2 NAMES OF INGREDIENTS GIVEN ON THE WARNING LABEL Hydrocarbon solvent (aromatic)
- 15.1.3 R AND S PHRASES R10, R52/53, R65, S02, S36/37, S45, S61; S62
- 15.1.5 SPECIAL REGULATIONS ON CERTAIN PREPARATIONS
- 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 See technical datasheet
- 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

HENKEL MAKROFLEX AS**Date : 26/03/13**

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 fulfil 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.