Zurechem®

Safety Data Sheet

Material: release **Solvent based PU foam release LW137**

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Commercial product name: **solvent based PU foam release**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of substance / preparation:
Industrial.
Release agent

1.3 Details of the supplier of the safety data sheet

Manufacturer/distributor:	Zurechem Silicon Technologies	
Street/POB-No.:	2nd Industrial Zone, Plot 2, Block	
State/postal code/city:	Alex, Egypt	
Telephone:	+203 462 51 26	
Telefax:	+203 462 50 45	
Information about the Safety Data Sheet:	Telephone	+203 462 51 26
	Telefax	+203 462 50 45
	eMail	info@zurechem.com

1.4 Emergency telephone number

Emergency Information:	**Plant fire brigade**	+203 462 51 26
Emergency Information:	**National Response Center**	+2122

SECTION 2: Hazards identification

Classification (CLP):

Flammable liquids	Category 3
H226 Flammable liquid and vapor.	
Skin irritation	Category 2
H315 Causes skin irritation.	
Serious eye irritation	Category 2
H319 Causes serious eye irritation.	
Skin sensitizer	Category 1
H317 May cause an allergic skin reaction.	
Specific target organ toxicity - single exposure	Category
3 H336 May cause drowsiness or dizziness.	
Target organ: Central nervous system	
Specific target organ toxicity - single exposure	Category
3 H335 May cause respiratory irritation.	
Target organ: respiratory tract irritation	
Aspiration hazard	Category 1
H304 May be fatal if swallowed and enters airways.	
Chronic hazards to the aquatic environment	Category 3
H412 Harmful to aquatic life with long lasting effects.	

2.1. Label

Hazard

elements Label

elements (CLP):

Contains	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
	Heptane 80-
	110
	White spirit
Signal	Dange
Hazard statement:	H226 Flammable liquid and vapor. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects.
Precautionary statement: Prevention	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing vapors. P273 Avoid release to the environment. P280 Wear protective gloves.
Precautionary statement: Response	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor. P331 Do NOT induce vomiting. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.
Precautionary statement: Storage	P403+P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards
None if used properly.
Not fulfilling Persistent, Bio accumulative and Toxic (PBT), very Persistent and very Bio accumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients

3.1 Substances

. Mixtures

General chemical description:
Release agent
Base substances of preparation:

3.2 Mixtures

3.2.1 Chemical characterization (preparation)

Mix of solvent with wax

3.2.2 Hazardous ingredients

EC-No.	CAS No.	Material	Content %	Warning Label (EC)	
				Symbol	R-Phrases*
	64742-49-0	Heptane 80-110	<80	Xn	R67
	64742-82-1	White spirit	<5	Xn	R65
	8002-74-2	Wax	<4	……	……

*Classification codes are explained in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:
Immediately wash skin thoroughly with soap and water.
Obtain medical attention if irritation persists.

Eye contact:
Wash with plenty of water immediately and continue for several minutes, holding eyelid open. Consult a doctor.

Ingestion:
Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

EYE: Irritation, conjunctivitis.

SKIN: Redness, inflammation.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

SKIN: Rash, Urticaria.

ASPIRATION: Coughing, shortness of breath, nausea. Delayed effect: bronchopneumonia or pulmonary oedema

Vapors may cause drowsiness and dizziness.

4.3. Indication of any immediate medical attention and special treatment needed
Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or
pulmonary oedema.
Do not induce vomiting.
Seek medical attention from a specialist.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
Carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:
High pressure waterjet

5.2. Special hazards arising from the substance or mixture
Can form explosive gas/air mixtures.
See section 10.
Oxides of carbon.
Irritating vapours.

5.3. Advice for firefighters
Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

Additional information:
In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with skin and eyes.
Ensure adequate ventilation.
Wear protective equipment.

6.2. Environmental precautions
Do not empty into drains / surface water / ground water.
Collect contaminated washing water for appropriate disposal.
Inform authorities in the event of product spillage to water courses or sewage systems.

6.3. Methods and material for containment and cleaning up
Wipe up using absorbent material and subject to waste incineration.
Dispose of contaminated material as waste according to Section 13.

SECTION 7: Handling and storage

6.4. Reference to other sections

See advice in section 8

7.1. Precautions for safe handling

Use only in well-ventilated areas.
Keep away from sources of ignition - no smoking.
Avoid skin and eye contact.
See advice in section 8
Take measures to prevent the build-up of electrostatic charges.

Hygiene measures:

Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Good industrial hygiene practices should be observed.

7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container protected against moisture.
Store in a cool, well-ventilated place.
Do not store or use near heat, spark, open flame or other sources of ignition.
Take precautionary measures against static discharges during storage and transport.
Refer to Technical Data Sheet
Do not store together with oxidants.

7.3. Specific end use(s)

Release agent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

-

8.2 Exposure controls

8.2.1 Exposure in the work place limited and controlled General protection and hygiene measures:

Avoid contact with eyes and skin. Do not inhale gases/vapors/aerosols. Do not eat, drink or smoke when handling.

Personal protection equipment:

Respiratory protection

In accordance with instructions: not required. In case of aerosol- or mist formation use respiratory protection. combi filter A/P2 .

Hand protection

Nitrile rubber protective gloves. Protective gloves made of butyl rubber. Gloves suitable for up to 60 minutes' use. The selection of appropriate gloves not only depends on the material, but also on other quality characteristics, and may vary depending on the manufacturer. Please observe information from your glove supplier in terms of permeability and breakthrough time.

Skin protection
Protective clothing.

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters and soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	liquid Liquid Colorless
Odor	mild, Solvent
Odour threshold	No data available / Not applicable
pH	Not applicable
Melting point	No data available / Not applicable
Solidification temperature	No data available / Not applicable
Initial boiling point (1.013 hPa)	> 112 °C (> 233.6 °F)
Flash point	31 °C (87.8 °F); Tagliabue closed cup
Evaporation rate	No data available / Not applicable
Flammability	No data available / Not applicable
Explosive limits	
lower	0,6 %(V)

upper	8,5 %(V) The product is not explosive. The formation of explosive vapor/air mixtures is possible.
Vapour pressure	30 mbar
Relative vapour density: (20 °C)	> 1 (Air = 1)
Density (20 °C (68 °F))	0,75 g/cm3
Bulk density	No data available / Not applicable
Solubility	No data available / Not applicable
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Slight
Solubility (qualitative) (20 °C (68 °F); Solvent: other organic solvents)	Soluble
Partition coefficient: n-octanol/water	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Decomposition temperature	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Oxidising properties	No data available / Not applicable

9.2. Other information

Re 9.2 Flash Point: Substance exhibits no flashpoint until boiling commences. Thermal decomposition .....: no data available

SECTION 10: Stability and reactivity

10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Relevant information can possibly be found in other parts of this section.

10.4 Conditions to avoid

none known

10.5 Incompatible materials

none known

10.6 Hazardous decomposition products

If stored and handled properly: none known. The following applies for the silicone content of the substance: Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

11.1.1 Acute toxicity

Assessment:

Inhalable aerosols containing aminofunctional polysiloxanes may cause harmful effects in the lung in animal experiments. Due to the large number of influencing parameters (e.g. amine function, degree of substitution, viscosity, composition) an estimation of the toxicological effect on the lung is not possible for untested products of this category. In such cases exposure to inhalable aerosols must be prevented by adequate technical measures.

Acute toxicity estimate (ATE):

ATE_{mix} (oral): > 2000 mg/kg

11.1.2 Skin corrosion/irritation

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.3 Serious eye damage / eye irritation

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.4 Respiratory or skin sensitization

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.5 Germ cell mutagenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.6 Carcinogenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.7 Reproductive toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.8 Specific target organ toxicity (single exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.9 Specific target organ toxicity (repeated exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.10 Aspiration hazard

Assessment:

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

SECTION 12: Ecological information

12.1 Toxicity

Assessment:

For the product as a wole, no test data is available. According to current knowledge adverse effects on water purification plants

Are not expected.

12.2 Persistence and degradability

Assessment:

Silicone content: Biologically not degradable. Elimination by adsorption to activated sludge.

12.3 Bioaccumulative potential

Assessment:

Bioaccumulation is not expected to occur.

12.4 Mobility in soil

Assessment:

Silicone content: Separation by sedimentation.

12.5 Other adverse effects

none known

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Material

Recommendation:
Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

13.1.2 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.

SECTION 14: Transport information

1 – 14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group

Road ADR:
Valuation .....: Not regulated for transport

Railway RID:
Valuation .....: Not regulated for transport

Transport by sea IMDG-Code:
Valuation .....: Not regulated for transport

Air transport ICAO-TI/IATA-DGR:
Valuation .....: Not regulated for transport

14.5 Environmental hazards

Hazardous to the environment: no

14.6 Special precautions for user

Relevant information in other sections have to be considered.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

15.2 Other international regulations

Details of international registration status:

Listed on or in accordance with the following inventories:
EINECS - Europe
ECL - Korea
ENCS - Japan
AICS - Australia
IECSC - China
DSL - Canada
PICCS - Philippines
TSCA - USA

SECTION 16: Other information

16.1 Material

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

All deliveries are subject to the ZURECHEM SILICONES Health Care Policy, which is available at www.zurechem.com.

16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

R-Phrase	Description
R38	Irritating to skin.
R22 R41	Harmful if swallowed. Risk of serious damage to eyes.
R41	Risk of serious damage to eyes.
R22 R36/38	Harmful if swallowed. Irritating to eyes and skin.

- End of Safety Data Sheet -