

Material Safety Data Sheet

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REAXYL Safety-data-sheet 91/155 EEG en 93/112/EG

Date/ review op: 17/10/2017

Version: 2.0

Product: **Reaxyl SK-711**

Print date 17/10/2017

1. Substance/Preparation and Company Name

- Information on the product

Reaxyl SK-711

- Information on manufacturer/Supplier

Supplier:

Cruysberghs Chemical bvba

Heppensesteenweg 56

3945 HAM, BELGIUM

Telefoon: 011/72.71.66

e-mail: info@cruysberghs.be

- Telephone number in emergency cases

International emergency number:

Telefoon: +32 11/72.71.66



2. Composition/Information on Ingredients

- Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2A

Reproductive toxicity: Repr. 2

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

Causes skin irritation.

Suspected of damaging the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

- Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

toluene

Signal word: Danger

Pictograms:



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- Hazard statements

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H315 Causes skin irritation.
 H361d Suspected of damaging the unborn child.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements

P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P243 Take precautionary measures against static discharge.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container in accordance with local regulation.

- Other hazards

No information available.

3. Possible hazards

- Mixtures

Chemical characterization

Polydimethylsiloxane + curing agents + fillers + auxiliary agents

- Hazardous components

Cas No	Chemical name			Quantity
	Ec No	Index No	Reach No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
108-88-3	toluene			<20%
	203-625-9	601-021-00-3		
4253-34-3	Methytriacetoxysilan			<10%
	224-221-9	01-2119962266-32		
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1; H302 H314 H318 EUH014			
556-67-2	octamethylcyclotetrasiloxane			< 0,2 %
	209-136-7	014-018-00-1		
	Repr. 2, Aquatic Chronic 4; H361f *** H413			
1067-33-0	Dibutylzinndiacetat			< 0,1 %
	213-928-8		01-2119634587-29	
	Muta. 2, Repr. 1B, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1B, STOT SE 1, STOT RE 1, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 10); H341 H360FD H314 H318 H317			

Components not mentioned are non-hazardous.
 Full text of H and EUH statements: see section 16.

4. First Aid Measures

- Description of first aid measures

General information

During polymerization the product releases small quantities of acetic acid.

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

Vapours may cause drowsiness and dizziness. Do not leave the injured person unattended.

Avoid exposure to women during early pregnancy.

After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. If skin irritation persists, call a physician.

After contact with eyes

Immediately flush eye(s) with plenty of water. In case of durable symptoms, consult an ophthalmologist.

After ingestion

Let water be swallowed in little sips (dilution effect). Do not induce vomiting.

- Most important symptoms and effects, both acute and delayed

Reference to other sections

- Indication of any immediate medical attention and special treatment needed

Avoid exposure to women during early pregnancy.

Hazard identification: toxic effects for reproduction

5. Firefighting measures

- Extinguishing media

Suitable extinguishing media

Water fog. alcohol resistant foam. Carbon dioxide. Extinguishing powder. Sand.

Unsuitable extinguishing media

High power water jet.

- Special hazards arising from the substance or mixture

Combustion may provoke smoke emission. Hazardous decomposition products formed under fire conditions.

Decomposition products: acetic acid

- Advice for firefighters

In the event of fire, wear self-contained breathing apparatus

6. Accidental release measures

-Personal precaution measures:

Wear personal protection equipment. Avoid contact with skin and eyes. Do not breathe gas/vapour. Special skid risk by leaking/spilling product.

-Environmental protection measures:

Do not empty into drains or the aquatic environment. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13). Retain and dispose of contaminated wash water

-Measures for cleaning up/collecting:

Collect mechanically. Do not flush with water. Dispose of as unused product. Cleaning with white-spirit possible. Vapors / aerosols must be cleaned by suction at the place of origin. Remove from all sources of ignition.

7. Handling and storage

-Handling:

-Information for secure handling:

Provide sufficient air exchange and/or exhaust in work rooms. Vapors / aerosols must be cleaned by suction at the place of origin. Contaminated surfaces will be extremely slippery.

-Information on protection against fire and explosion:

Fumes may form explosive mixtures with air. Keep product and empty container away from heat and sources of ignition. Take precautionary measures against static discharges. Cool closed containers exposed to fire with water spray

-Storage:

-Requirements for storage rooms and containers:

Keep containers firmly locked. Goods in original packing have a shelf life of over one year if stored at a cool and dry place.

8. Expose controls and personal protection

CAS No	Substance	ppm	mg/m ³	Category	Origin
64-19-7	Acetic acid	10	25	TWA (8 h)	EU
		15	37	STEL (15 min)	EU
108-88-3	Toluene	50	191	TWA (8 h)	WEL
		100	384	STEL (15 min)	WEL

-General protective and hygiene measures:

Avoid contact with the skin and the eyes. Do not breathe gas/fumes/vapour/spray. When using, do not eat, drink or smoke. Keep working clothes separately.

-Protection of hands:

Protective gloves Fluorinated rubber. Duration of use approx. 60 minutes. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

-Eye protection:

Tightly sealed safety glasses.

- Skin protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Protective suit

- Respiratory protection

Ensure adequate ventilation, especially in confined areas. Use only with adequate ventilation/personal protection. Avoid exceeding of the given occupational exposure limits (see section 8).

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. respirator with ABEK filter

- Environmental exposure controls

Do not empty into drains or the aquatic environment.

9. Physical and chemical properties

-Form: Liquid pasty

-Colour: transparent

-Odour: vinegar-acid and toluol

-Boiling point/Boiling range (in °C): 11°C by 1013hPa

-Melting/Melting range (in °C): no data available.

-Flash point: 6 °C DIN 53213

-Solubility in water: insoluble

-Explosion danger: LEL 1.2 vol % - HEL 7.0 vol %

-Density (at 20 °C): 1.08 g/cm³ DIN 53217

-Steam pressure (at 20 °C): 29 hPa

-Viscosity (at 23°C): 65,000 mPa.s

-pH value: no data available.

-Ignition temperature: > 540° C DIN 51794

-Thermic decomposition: no data available.

- Other information

Possible decomposition products in case of hydrolysis are: acetic acid: Exposure limits 4 -17 Vol-%

10. Stability and reactivity

- Reactivity

No dangerous reaction known under conditions of normal use.

- Chemical stability

Stable at normal ambient temperature and pressure.

- Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

- Conditions to avoid

None known.

- Incompatible materials

Reacts with water, Bases, alcohols. Formation of: Acetic acid.

- Hazardous decomposition products

Possible decomposition products in case of hydrolysis are: Acetic acid.

Upon prolonged heating above 150 °C hazardous decomposition products may be released.

Formaldehyde.

- Further information

No decomposition if stored and applied as directed.

11. Toxicological information

- Information on toxicological effects

- Acute toxicity

No toxicology information is available.

Acute toxicity estimate (Oral) >5000 mg/kg

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
108-88-3	toluene				
	dermal	LD50	12200 mg/kg	Rabbit	GESTIS
	inhalative (4 h) vapour	LC50	49 mg/l	Rat	GESTIS
4253-34-3	Methyltriacetoxysilan				
	oral	ATE	500 mg/kg		

- Irritation and corrosivity

Irritating to eyes and skin.

(Result, Methods of detection and analysis rabbit)

- Sensitising effects

Toxicological data are not available.

- STOT-single exposure

No data is available on the product itself.

toluene (inhalation):

Target Organs: Central nervous system; Product has narcotic effect.

- Severe effects after repeated or prolonged exposure

No data is available on the product itself.

toluene (inhalation):

Target Organs: Central nervous system; Product has narcotic effect.

- Carcinogenic/mutagenic/toxic effects for reproduction

No data is available on the product itself.
toluene: Possible risk of harm to the unborn child.

- Aspiration hazard

Due to the viscosity, this product does not present an aspiration hazard.
Component toluene: Aspiration hazard

- Further information

During polymerization the product releases small quantities of acetic acid. Do not inhale highly-concentrated release products for a longer period of time during polymerization, danger of irritation. toluene Slightly irritating to skin and mucous membranes, degreasing skin, narcotic.

12. Ecological information

CAS NO	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
108-88-3	toluene					
	Acute fish toxicity	LC50	13 mg/l	96 h	Carassius auratus	IUCLID
	Acute algae toxicity	ErC50	12,5 mg/l	72 h		GESTIS

- Persistence and degradability.

silicone bio-degradable. The solvent is biodegradable.

- Bioaccumulative potential

Bioaccumulation is unlikely.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
108-88-3	toluene	2,73

- Mobility in soil

No data is available on the product itself.

- Results of PBT and vPvB assessment

no data available

-Other adverse effects

None known.

- Further information

Cured product is insoluble in water

13. Disposal considerations

- Advice on disposal

Carry out a burning of hazardous waste according to official regulations.

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

- Contaminated packaging

Empty remaining contents. Fully drained containers which are drop- and scrape-free can be treated as industrial waste, and can possibly be recycled.

14. Transport information

- Land transport (ADR/RID)

UN number: UN1993

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. Contains: Toluene, n-Propanol

Transport hazard class(es): 3

Packing group: II

Hazard label: 3



Classification code: F1

Special Provisions: 274 601 640D

Limited quantity: 1 L

Transport category: 2

Hazard No: 33

Tunnel restriction code: D/E

- Other applicable information (land transport)

E2

2

- Marine transport (IMDG)

UN number: UN1993

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. Contains: Toluene, n-Propanol

Transport hazard class(es): 3

Packing group: II

Hazard label: 3



Marine pollutant: no

Special Provisions: 274

Limited quantity: 1 L

EmS: F-E, S-E

- Other applicable information (marine transport)

Special provisions: 274, 330, 944

E2

- Air transport (ICAO)

UN number: UN1993

UN proper shipping name: FLAMMABLE LIQUID, N.O.S. Contains: Toluene, n-Propanol

Transport hazard class(es): 3

Packing group: II

Hazard label: 3



Special Provisions: A3

Limited quantity Passenger: 1 L

IATA-packing instructions - Passenger: 353

IATA-max. quantity - Passenger: 5 L

IATA-packing instructions - Cargo: 364

IATA-max. quantity - Cargo: 60 L

-Other applicable information (air transport)

E2

Y341

- Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

15. Regulatory information

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

EU regulatory information

2004/42/EC (VOC): VOC = 14%

Additional information

Moreover, national legislation has to be obeyed!

National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 2 - water contaminating

Additional information

Attention: When put on the German market this product is subject to the Ordinance on Hazardous Substances. The basis for this is that the product is labelled as toxic or very toxic, oxidizing, extremely flammable, may cause irreversible effects (R40), may cause impaired fertility (R62), may cause harm to be unborn child (R63 or R68).

- Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

16. Additional Information

Relevant H and EUH statements (number and full text)

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H341 Suspected of causing genetic defects.
- H360FD May damage fertility. May damage the unborn child.
- H361d Suspected of damaging the unborn child.
- H361f Suspected of damaging fertility.
- H370 Causes damage to organs.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.
- EUH014 Reacts violently with water.

Further Information

These data describe only the safety requirements for the product(s) and are based on our present knowledge.

However, they do not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.