

Material Safety Data Sheet

according to Regulation (EC) 1907/2006



Product name : KSE 300
Revision : 23.03.2012
Print date : 23.03.2012

Version : 1.0.0

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

KSE 300 (0000072000)

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

Coating / Impregnation / Surface coating/paint

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier : Remmers Baustofftechnik GmbH
Street/P.O.Box : Bernhard-Remmers-Strasse 13
Country code/Postal code/Town/City : 49624 Lönigen
Telephone : 05432/83-0
Telefax : 05432/3985
Contact : Steve Dunn Tel.: +44 (0) 845 373 0103
E-Mail: sales@remmers.co.uk

1.4 Emergency telephone number

during working hours:
U.K.: Tel.: +44 (0) 845 373 0103
sales@remmers.co.uk
Far East: Tel.: +65(0) 67410277
Head Office Germany: Tel.: +49 (0)5432 83 187
info@remmers.de
after working hours: Tel.: +49 (0)171 21 34 091

2. Hazards identification

2.1 Classification of the substance or mixture

Directive 67/548/EEC or 1999/45/EC

Flammable. · Harmful by inhalation. · Irritating to eyes and respiratory system.
R 10 · Xn ; R 20 · Xi ; R 36/37

Regulation (EC) No 1272/2008 (GHS)

Flammable liquid and vapour. · Harmful if inhaled. · Causes serious eye irritation.
Acute Tox. 4 ; H332 · Eye Irrit. 2 ; H319 · Flam. Liq. 3 ; H226 · STOT SE 3 ; H335

2.2 Label elements

Directive 67/548/EEC or 1999/45/EC

Danger symbol and danger designation



Xn ; Harmful

Hazard-determining components of labelling

TETRAETHYL SILICATE ; CAS-No. : 78-10-4

R-phrases

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10 Flammable.
20 Harmful by inhalation.
36/37 Irritating to eyes and respiratory system.

S-phrases

23.2 Do not breathe gas/vapour.
2 Keep out of the reach of children.
51 Use only in well-ventilated areas.
46 If swallowed, seek medical advice immediately and show this container or label.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
25 Avoid contact with eyes.

Regulation (EC) No 1272/2008 (GHS)

Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

Signal word

Warning

Hazard-determining components of labelling

TETRAETHYL SILICATE ; CAS-No. : 78-10-4

Hazard statements

H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P337/313 If eye irritation persists: Get medical advice/attention.
P403/235 Store in a well-ventilated place. Keep cool.

2.3 Other hazards

None.

3. Composition/information on ingredients

3.2 Mixtures

Hazardous components

TETRAETHYL SILICATE ; EC-No. : 201-083-8; CAS-No. : 78-10-4

Percentage : 60 - 80 %
Classification 67/548/EEC : R10 Xn ; R20 Xi ; R36/37
Classification 1907/2006 (GHS) : Flam. Liq. 3 ; H226 Acute Tox. 4 ; H332 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

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For the wording of the listed risk phrases refer to section 16.

4. First aid measures

4.1 Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

After inhalation

Take the casualty into the fresh air and keep warm. Keep at rest. Irregular breathing/no breathing: artificial respiration. Unconsciousness: lateral position - call a physician.

After skin contact

Immediately remove all contaminated clothing. Wash away with soap and water and rinse. Do NOT use solvents or thinners.

After eye contact

Remove contact lenses, keep eyelids open. Flush with plenty of water (10 - 15 min.). Call a physician.

After ingestion

Contact a doctor immediately. Keep at rest. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

None.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media

Waterjet.

5.2 Special hazards arising from the substance or mixture

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters

Appropriate breathing apparatus may be required.

5.4 Additional information

Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove ignition sources. Provide for sufficient ventilation. Do not inhale the vapour. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

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Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents.

6.4 Reference to other sections

None.

7. Handling and storage

7.1 Precautions for safe handling

Information for safe handling

Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid contact with skin and eyes. Do not inhale the vapour. Do not eat or drink during work - no smoking. Comply with the health and safety at work laws.

Information about protection against explosions and fires

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and containers

Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

Further information about storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep away from ignition sources - No smoking.

7.3 Specific end use(s)

None.

8. Exposure controls/personal protection

8.1 Control parameters

None.

8.2 Exposure controls

Personal protective equipment

General protective and hygiene measures

Wash hands before breaks and after work.

Respiratory protection

If workplace limits are exceeded, a gas mask approved for this purpose must be worn. Fresh air masks are recommended, or combination filters A2-P2 for works of short duration.

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Hand protection

Solvent-resistant protective gloves must be worn. After washing hands replace lost skin fat by fat containing skin creams.

Eye protection

Use safety glasses.

Body protection

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

Additional information about engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit) , suitable respiratory protection must be worn.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Relevant safety data

Physical state :				liquid
Boiling temperature / boiling range :	(1013 hPa)	>	100	°C
Flash point :			40	°C
Density :	(20 °C)		0,98	g/cm ³
pH value :			not applicable	
Flow time :	(20 °C)		12	s
				DIN-cup 4 mm

9.2 Other information

None.

10. Stability and reactivity

10.1 Reactivity

There are no data available on the product itself.

10.2 Chemical stability

There are no data available on the product itself.

10.3 Possibility of hazardous reactions

There are no data available on the product itself.

10.4 Conditions to avoid

Stable under recommended storage and handling conditions(See section 7).

10.5 Incompatible materials

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

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11.1 Information on toxicological effects

There are no data available on the product itself.

11.2 Experience on practice

Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea. In case of contact with the product: danger of resorption through the skin, irritation of skin/mucous membranes. Eye contact: irritation.

11.3 Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

12. Ecological information

12.1 Toxicity

There are no data available on the product itself.

12.2 Persistence and degradability

There are no data available on the product itself.

12.3 Bioaccumulative potential

There are no data available on the product itself.

12.4 Mobility in soil

There are no data available on the product itself.

12.5 Results of PBT and vPvB assessment

There are no data available on the product itself.

12.6 Other adverse effects

There are no data available on the product itself.

12.7 Additional information

Do not empty into waters or drains.

13. Disposal considerations

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

13.1 Waste treatment methods

Do not empty into waters or drains. Can be taken to a suitable incineration centre in observance of local regulations.

Waste key

Waste code (91/689/EEC) : 17 01 06*

14. Transport information

14.1 UN number

1292

14.2 UN proper shipping name

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ADR/RID
TETRAETHYL SILICATE

IMDG-Code
TETRAETHYL SILICATE

ICAO-TI / IATA-DGR
TETRAETHYL SILICATE

14.3 Transport hazard class(es)

ADR/RID

Class : 3
Classification-Code : F1
Kemlercode : 30
Tunnel restriction code : D/E
Special provisions : 640E · LQ 7 · E 1
Label : 3

IMDG-Code

Class : 3
EmS number : F-E / S-E
Special provisions : LQ 5 I · E 1
Label : 3

ICAO-TI / IATA-DGR

Class : 3
Special provisions : E 1
Label : 3

14.4 Packing group

III

14.5 Environmental hazards

ADR/RID : -

IMDG-Code : -

ICAO-TI / IATA-DGR : -

14.6 Special precautions for user

None.

15. Regulatory information

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

None.

15.2 Chemical safety assessment

There are no data available on the product itself.

16. Other information

Further information

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The details in this material safety data sheet satisfy national and EC legislation. We have no knowledge or control over the user's working conditions however. The product may not be used for any purpose other than that specified in chapter 1 unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

R-Phrases of components

10	Flammable.
20	Harmful by inhalation.
36/37	Irritating to eyes and respiratory system.

GHS Hazard statements of components

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
