

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18-Jul-2017

Print date: 16-Jul-2018

Version: 6

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

1.1. Product identifier

Trade name/designation:

Mold Sealer S-31

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

Use of the substance/mixture:

Lubricants, greases, release products

Uses advised against:

Sector of uses [SU]

SU 21: Consumer uses

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Jost Chemicals GmbH

Gottlieb-Daimler-Str. 10

69514 Laudenbach

Germany

Telephone: 0049-6201-42810

Telefax: 0049-6201-45590

E-mail: info@jost-chemicals.de

Website: www.jost-chemicals.de

1.4. Emergency telephone number

R&D, Telefon auskunftgebender Bereich: 0049-(0)6201-42810, Notfallouskunft: R&D (Mo - Fr. 08.00 - 16.00 Uhr), 24h: +49-(0)157-73741921, +49-(0)6201-42810 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 3</i>)	H226: Flammable liquid and vapour.	
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02
Flame



GHS08
Health hazard

Signal word: Danger

Hazard components for labelling:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics; Distillates (petroleum), hydrotreated light; Naphtha (petroleum), hydrotreated light

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hazard statements for physical hazards

H226 Flammable liquid and vapour.

hazard statements for health hazards

H304 May be fatal if swallowed and enters airways.

Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

Supplemental Hazard information (EU)

EUH018 In use may form flammable/explosive vapour-air mixture.

Precautionary statements Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P243 Take action to prevent static discharges.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/....

P331 Do NOT induce vomiting.

Precautionary statements Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

Adverse physicochemical effects:

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Adverse human health effects and symptoms:

May be fatal if swallowed and enters airways.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

Mixture of the following substances and non-hazardous substances.

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
EC No.: 927-241-2 REACH No.: 01-2119471843-32-0000	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics STOT SE 3, Flam. Liq. 3, Asp. Tox. 1, Aquatic Chronic 3 Danger EUH066	54 - 92 Wt %
CAS No.: 64742-47-8 EC No.: 265-149-8 INDEX No.: 649-422-00-2	Distillates (petroleum), hydrotreated light Asp. Tox. 1 Danger H304	1 - 3 Wt %
CAS No.: 64742-49-0 EC No.: 265-151-9 REACH No.: 01-2119475514-35-0002	Naphtha (petroleum), hydrotreated light STOT SE 3, Flam. Liq. 2, Skin Irrit. 2, Asp. Tox. 1, Aquatic Chronic 2 Danger H225-H304-H315-H336-H411	1 - 3 Wt %

Full text of H- and EUH-phrases: see section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell. Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Get immediate medical advice/attention.

Self-protection of the first aider:

Use personal protection equipment.

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

Pneumonia Pulmonary oedema

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

ABC-powder , Dry extinguishing powder , Water spray

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

Carbon monoxide
Carbon dioxide (CO₂)

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

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6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Fire prevent measures:

Usual measures for fire prevention.

Measures to prevent aerosol and dust generation:

Provide adequate ventilation as well as local exhaustion at critical locations.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Keep/Store only in original container.

Hints on storage assembly:

Keep away from: Food and feedingstuffs

Storage class: 3 - Flammable liquids

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
DFG (DE)	Distillates (petroleum), hydro treated light CAS No.: 64742-47-8	① 5 mg/m ³ ② 20 mg/m ³ ⑤ Aerosol (alveolengängige Fraktion)
WEL (GB)	Distillates (petroleum), hydro treated light CAS No.: 64742-47-8	① 1,200 mg/m ³ ⑤ (> or = C7, Normal and branched chain alkanes)
WEL (GB)	Distillates (petroleum), hydro treated light CAS No.: 64742-47-8	① 800 mg/m ³ ⑤ (> or = C7, Cycloalkanes)

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Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
DFG (DE)	Distillates (petroleum), hydro treated light CAS No.: 64742-47-8	① 50 ppm (350 mg/m ³) ② 100 ppm (700 mg/m ³) ⑤ Dampf

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection

Skin protection:

Tested protective gloves must be worn DIN EN 374 Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Suitable respiratory protection apparatus:

Filtering device (full mask or mouthpiece) with filter: Typ A

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

EG-Nr.: 927-241-2 (früher zugeordnete CAS-Nr.: 64742-48-9)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: transparent

Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	Remark
pH	not determined			
Melting point	not determined			
Freezing point	not determined			
Initial boiling point and boiling range	110 - 190 °C			
Decomposition temperature (°C):	not determined			
Flash point	> 25 °C			
Evaporation rate	not determined			
Ignition temperature in °C	> 200 °C			
Upper/lower flammability or explosive limits	0.6 - 7 Vol-%			

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parameter		at °C	Method	Remark
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Relative density	0.75 - 0.78 g/cm ³	20 °C		
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour. Risk of explosion if heated under confinement.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cycloalkenes, <2% aromatics	LD₅₀ oral: 5,000 mg/kg (Ratte) OECD 401 LD₅₀ dermal: 5,000 g/m ³ (Kaninchen) OECD 402 LC₅₀ inhalative: 4,951 mg/l 4 h (Rat)
64742-47-8	Distillates (petroleum), hydrotreated light	LD₅₀ oral: >2,000 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rabbit) LC₅₀ inhalative: >5 mg/l 4 h (Rat)
64742-49-0	Naphtha (petroleum), hydrotreated light	LD₅₀ oral: 5,840 mg/kg (Ratte) OECD 401 LD₅₀ dermal: 2,920 mg/kg (Kaninchen) OECD 402 LC₅₀ inhalative: 25.2 mg/l 4 h (Rat)

Serious eye damage/irritation:

slightly irritant

Respiratory or skin sensitisation:

not sensitising.

Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

Carcinogenicity:

No indication of human carcinogenicity.

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Reproductive toxicity:

No indications of human reproductive toxicity exist.

Aspiration hazard:

May be fatal if swallowed and enters airways.

Additional information:

May cause drowsiness or dizziness.

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics	LC₅₀: >10 mg/l 4 d (Oncorhynchus mykiss (Rain bow trout)) EC₅₀: >22 mg/l 2 d (Daphnia magna (Big water flea)) IC₅₀: >1,000 mg/l 3 d (Pseudokirchneriella subcapitata)
64742-49-0	Naphtha (petroleum), hydrotreated light	LC₅₀: 11.4 mg/l 4 d (Fische) OECD 203 (Fische, akute Toxizität) EC₅₀: 3 mg/l 2 d (Daphnien) OECD 202 (Daphnie n, Immobilisierung)

Aquatic toxicity:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Terrestrial toxicity:

There are no data available on the mixture itself.

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics	Yes, rapidly	

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
64742-47-8	Distillates (petroleum), hydrotreated light	—
64742-49-0	Naphtha (petroleum), hydrotreated light	—

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

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Appropriate disposal / Package:

Completely emptied packages can be recycled.

13.2. Additional information

No data available

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	
14.1. UN-No.			
UN 3295	UN 3295	UN 3295	
14.2. UN proper shipping name			
HYDROCARBONS, LIQUID, N.O.S.	HYDROCARBONS, LIQUID, N.O.S.	HYDROCARBONS, LIQUID, N.O.S.	
14.3. Transport hazard class(es)			
 3	 3	 3	
14.4. Packing group			
III	III	III	
14.5. Environmental hazards			
No	No	No	
14.6. Special precautions for user			
Special provisions: Limited quantity (LQ): Hazard identification number (Kemler No.): Classification code: F1 Remark:	Special provisions: Limited quantity (LQ): Classification code: F1 Remark:	Special provisions: Limited quantity (LQ): EmS-No.: F-E, ; S-D Remark:	

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

22 JArbSchG.

5 MuSchRiV.

4 MuSchRiV.

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Water hazard class (WGK)

WGK:

1 - schwach wassergefährdend

15.2. Chemical Safety Assessment

No data available

15.3. Additional information

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

Data arise from reference works and literature.

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 3</i>)	H226: Flammable liquid and vapour.	
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Supplemental Hazard information (EU)	
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.