

1 Identification of substance· **Product details**

- **Trade name:** Dirko-Silikonlöser
- **Erling article number:** 030.800
- **Application of the substance / the preparation:** Cleaning agent/ Cleaner
- **Manufacturer/Supplier:**
ErlingKlinger AG
Max-Eyth-Straße 2
D-72581 Dettingen/Erms
- **Information department:** 2ZEW Tel.: ++49(0)7123/724-253
- **Emergency information:** Tel.: ++49(0)7123/724-0

2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

85117-49-3	Benzenesulfonic acid, mono-C10-14-alkyl derivs.	C; R 22-35	10-25%
64742-48-9	Naphtha (petroleum), hydrotreated heavy	Xn; R 65-66	10-25%

3 Hazards identification· **Hazard description:**

Xi Irritant
F Highly flammable

· **Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Highly flammable.
Irritating to eyes and skin.

· **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0 - 4)**

Health = 2
Fire = 2
Reactivity = 0

· **WEHMIS-ratings (scale 0 - 4)**

HEALTH 2 Health = *2
FIRE 2 Fire = 2
REACTIVITY 0 Reactivity = 0

4 First aid measures

- **General information:** Take affected persons out into the fresh air.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- **After skin contact:**
Remove from the skin using a cloth or paper. Then clean with water and soap.
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Seek medical treatment.

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5 Fire fighting measures

- Suitable extinguishing agents: CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Protective equipment: No special measures required.

6 Accidental release measures

- Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection: Do not allow product to reach sewage system or any water course.
- Measures for cleaning/collecting:
 - Ensure adequate ventilation.
 - Pick up mechanically.
 - Dispose contaminated material as waste according to item 13.

7 Handling and storage

- Handling:
 - Information for safe handling: Ensure that suitable extractors are available on processing machines
 - Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
- Storage:
 - Requirements to be met by storerooms and receptacles: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as basis.
- Personal protective equipment:
 - General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
 - Breathing equipment: Not required.
 - Protection of hands:
 - Protective gloves
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
 - Material of gloves
 - Butyl rubber, BR
 - Nitrile rubber, NBR
 - Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - Eye protection: Tightly sealed goggles
 - Body protection: Protective work clothing

9 Physical and chemical properties

· General Information

Form:	Pasty
Color:	Brown
Odor:	Characteristic

· Change in condition

Melting point/Melting range:	<0°C (<32°F)
Boiling point/Boiling range:	Undetermined.

Flash point:	ca. 60°C (ca. 140°F)
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· Flammability (solid, gaseous): Highly flammable.
· Auto igniting: Product is not selfigniting.
· Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits: Lower: 1 Vol % Upper: 6 Vol %
· Vapor pressure at 20°C (68°F): 2 hPa (2 mm Hg)
· Density at 20°C (68°F): 0.9 g/cm ³
· Solubility in / Miscibility with Water: Emulsifiable.
· pH-value at 20°C (68°F): 3
· Viscosity: Kinematic at 20°C (68°F): 2.25 m ² /s

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** None if stored according to specifications.

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral LD50 >5000 mg/kg (rat)

Dermal LD50 >3000 mg/kg (rab)

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

12 Ecological information

· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

· **Product:**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:**

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

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14 Transport information

· DOT regulations:



- Hazard class: 3
- Identification number: UN1325
- Packing group: III
- Proper shipping name (technical name): FLAMMABLE SOLID, ORGANIC, N.O.S. (Benzenesulfonic acid, mono-C10-14-alkyl derivs., Naphtha (petroleum), hydrotreated heavy)
- Label: 3

· Land transport ADR/RID (cross-border):



- ADR/RID class: 4.1 (F1) Flammable solids
- Danger code (Kemler): 40
- UN-Number: 1325
- Packaging group: III
- Description of goods: 1325 FLAMMABLE SOLID, ORGANIC, N.O.S.

· Maritime transport IMDG:



- IMDG Class: 4.1
- UN Number: 1325
- Label: 4.1
- Packaging group: III
- EMS Number: F-A,S-G
- Marine pollutant: No
- Proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Benzenesulfonic acid, mono-C10-14-alkyl derivs., Naphtha (petroleum), hydrotreated heavy)

· Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 4.1
- UNID Number: 1325
- Label: 4.1
- Packaging group: III
- Proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Benzenesulfonic acid, mono-C10-14-alkyl derivs., Naphtha (petroleum), hydrotreated heavy)

15 Regulations

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

64742-48-9 Naphtha (petroleum), hydrotreated heavy

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity:

None of the ingredients is listed.

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· **Canadian Ingredient disclosure list**

· **Limit 0,1%:**

None of the ingredients is listed.

· **Limit 1%:**

None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**



Xi Irritant



F Highly flammable

· **Hazard-determining components of labelling:**

Naphtha (petroleum), hydrotreated heavy
Benzenesulfonic acid, mono-C10-14-alkyl derivs.

· **Risk phrases:**

Highly flammable.
Irritating to eyes and skin.

· **Safety phrases:**

Keep away from sources of ignition - No smoking.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Do not empty into drains.
Wear suitable gloves and eye/face protection.
In case of accident or if you feel unwell, seek medical advice immediately.

· **National regulations:**

If nothing other is noted, the following remarks refer to regulations
of the Federal Republic of Germany.

· **Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.**

· **Other regulations, limitations and prohibitive regulations**

According to € 20 GefStoffV the employer must set up a working
regulation to inform his employees about the existing hazards while
working with this product.

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16 Other information

The safety data sheet shows the essential physical, toxicological, ecological and safety data of this product as well as it gives recommendations for a safe handling e.g. at storage, usage and transport. The appropriate information shall be used to protect people and environment. 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. The consignee of our products must observe existing laws and regulations in his own responsibility even if these are not mentioned in this safety data sheet.

- Department issuing MSDS: ZZEW
- Contact: Mr. Anhorn