

Safety Data Sheet in Accordance With (EC) No 1907/2006

Ultrasonic Coupling Paste for the Temperature Range -30...130 °C



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1. Identification of the Substance or Mixture and the Company/Undertaking

Product identification	Ultrasonic coupling paste
Usage:	Ultrasonic Coupling Paste for the Temperature Range -30 °C...130 °C
Company:	FLEXIM GmbH Wolfener Str. 36 12681 Berlin Germany Tel.: +49 (0)30 / 936 676 60 MS, +49 (0)30 / 936 676 720, msds@flexim.com
Emergency telephone:	Poison Information Center Berlin Phone: +49 (0)30 30686-790 (24 hours, consultancy in German and English)

2. Hazards Identification

Classification in accordance with (EC) No 1272/2008:	Not classified as dangerous.
Labelled according to:	REGULATION (EC) No 1272/2008
Hazard statements:	None.
Precautionary statements:	None.
Supplemented hazard statements:	EUH210 - Safety data sheet available on request Contains Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, Sulfonic acids, petroleum, calcium salt. May produce an allergic reaction.
Properties dangerous to the environment:	Should not be released into the environment.
Physico-chemical properties:	Contaminated surfaces will be extremely slippery.

3. Composition/Information on Ingredients

Mixture of:	Benzenesulphonic acid, C10-16-alkyl derivs, calcium salts - EC No: 271-529-4 - REACH RN: Data not available - CAS RN: 68584-23-6 - Weight: <5 - GHS – Classification: Skin Sens. 1 (H317) Sulphonic acids, petroleum, calcium salts - EC No: 263-093-9 - REACH RN: data not available - CAS RN: 61789-86-4 - Weight: <5 - GHS – Classification: Skin Sens. 1 (H317) Benzenesulphonic acid, mono-C16-24-alkyl derivs, calcium salts - EC No: 274-263-7 - REACH RN: 01-2119492616-28 - CAS RN: 70024-69-0 - Weight: <10 - GHS – Classification: Skin Sens. 1B (H317)
Additional information:	Product containing mineral oil with less than 3% DMSO extract as measured by IP 346. For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First Aid Measures

In case of serious and persistent symptoms, get medical attention and submit the safety data sheet.

Inhalation:	Move to fresh air.
Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Skin contact:	Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. Take victim immediately to hospital.
Eye contact:	Rinse thoroughly with plenty of water, also under the eyelids.
Most important symptoms and effects, both acute and delayed	
Inhalation:	Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system.
Ingestion:	Not classified. Ingestion may cause gastrointestinal irritation, nausea,

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Skin contact:	vomiting and diarrhea. Not classified. May produce an allergic reaction. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
Eye contact:	Not classified.
Notes to physician:	Treat symptomatically.

5. Fire Fighting Measures

Extinguishing media	
- suitable:	Carbon dioxide (CO ₂). ABC powder. Foam. Water spray or fog.
- unsuitable:	Do not use a solid water stream as it may scatter and spread fire.
Special hazard:	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.
Protection measures for firefighters:	Wear self-contained breathing apparatus and protective suit.
Other information:	Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental Release Measures

Individual protection measures:	Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
Environmental precautions:	Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning:	Dam up. 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). Collect free product with suitable mechanical means. Keep in suitable, closed containers for disposal. See also section 8 and 13.

7. Handling and Storage

Handling	
- Prevention of user exposure:	When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.
- Prevention of fire and explosion:	Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.
- Hygiene measures:	Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.
Storage	
- Technical measures/Storage conditions:	Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.
- Incompatible substances:	Strong oxidizing agents.

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8. Exposure Controls/Personal Protection

Exposure levels:	Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m ³ , NIOSH (REL) TWA 5 mg/m ³ , STEL 10 mg/m ³ , ACGIH (TLV) TWA 5 mg/m ³ (highly refined) See also section 16.
DNEL worker Systemic effects, long-term	Benzenesulphonic acid, C10-16-alkyl derivs, calcium salts 68584-23-6 - 3.33 mg/kg bw/day (dermal) - 0.66 mg/m ³ (inhalation) Benzenesulphonic acid, mono-C16-24-alkyl derivs, calcium salts 70024-69-0 - 3.33 mg/kg bw/day (dermal) - 0.66 mg/m ³ (inhalation)
DNEL consumer Systemic effects, long-term	Benzenesulphonic acid, C10-16-alkyl derivs, calcium salts 68584-23-6 - 1.667 mg/kg bw/day (dermal) - 0.33 mg/m ³ (inhalation) - 0.8333 mg/kg bw/day (oral) Benzenesulphonic acid, mono-C16-24-alkyl derivs, calcium salts 70024-69-0 - 1.667 mg/kg bw/day (dermal) - 0.33 mg/m ³ (inhalation) - 0.8333 mg/kg bw/day (oral)
Predicted no-effect concentration (PNEC):	Benzenesulphonic acid, C10-16-alkyl derivs, calcium salts 68584-23-6 - Water: 1 mg/l fw, 1 mg/l mw, 10 mg/l or - Sediment: 723500000 mg/kg dw fw, 723500000 mg/kg dw mw - Soil: 868700000 mg/kg dw - STP: 100 mg/l - Oral: 16.667 mg/kg food Benzenesulphonic acid, mono-C16-24-alkyl derivs, calcium salts 70024-69-0 - Water: 1 mg/l fw, 1 mg/l mw, 10 mg/l or - Sediment: 723500000 mg/kg dw fw, 723500000 mg/kg dw mw - STP: 100 mg/l - Oral: 16.667 mg/kg food Sulfonic acids, petroleum, calcium salt 61789-86-4 - Water: 1 mg/l fw, 1 mg/l mw, 10 mg/l or - Sediment: 226000000 mg/kg dw fw, 226000000 mg/kg dw mw - Soil: 271000000 mg/kg dw - STP: 1000 mg/l - Oral: 16.667 mg/kg food
Engineering Measures:	Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
General information regarding personal protective equipment:	If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.
Respiratory protection:	None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). Type A/P1. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.
Hand protection	Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger

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Eye protection:	of cuts, abrasion, and the contact time. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.
Skin and body (other than the hands) protection:	If splashes are likely to occur, wear: Safety glasses with side-shields.
Environmental exposure controls:	Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.
	The product should not be allowed to enter drains, water courses or the soil.

9. Physical and Chemical Properties

Color:	Amber		
State of Aggregation:	Solid at 20 °C		
Odor:	Characteristic		
Odor Threshold:	No information available.		
Property	Values	Remarks	Method
pH		Not applicable.	
Melting point/range		No information available.	
Boiling point/boiling range		No information available.	
Flash point		Not applicable.	
Evaporation rate		No information available.	
Flammability limits in air:		No information available.	
Upper		No information available.	
Lower		No information available.	
Vapor pressure		No information available.	
Vapor density		No information available.	
Relative density	0.9	@ 20 °C	
Density	~ 900 kg/m ³	@ 20 °C	
Water solubility		Insoluble	
Solubility in other solvents		Soluble in many common solvents.	
logPow		No information available.	
Autoignition temperature		No information available.	
Decomposition temperature		No information available.	
Viscosity, kinematic	220 mm ² /s	@ 40 °C	ISO 3104
Explosive properties	Not explosive.		
Oxidizing properties	Not applicable.		
Possibility of hazardous reactions	No information available.		
Penetration index	28 - 31 mm		I-2137
Freezing temperature		No information available.	
Drop point	300 °C		I-396

10. Stability and Reactivity

Reactivity:	No information available.
Stability:	Stable under recommended storage conditions.
Dangerous reactions:	None under normal processing.
Conditions to avoid:	Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.
Materials to avoid:	Strong oxidizing agents.
Hazardous decomposition products:	None under normal use. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

11. Toxicological Information

Acute toxicity/local effect	
- Inhalation:	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
- Skin contact:	Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
- Eye contact:	Not classified.
- Ingestion:	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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Acute toxicity\component information:	Benzenesulphonic acid, C10-16-alkyl derivs, calcium salts - LD50 oral: > 5000 mg/kg (rat - OECD 401) - LD50 dermal: > 5000 mg/kg bw (rabbit - OECD 402) - LC50 inhalation: > 1.9 mg/l (rat - aerosol-OECD 403) Sulphonic acids, petroleum, calcium salts - LD50 oral: > 16000 mg/kg bw (rat) - LD50 dermal: > 4000 mg/kg (rabbit) - LC50 inhalation: LC50(4h) > 1.9 mg/l (rat - aerosol) Benzenesulphonic acid, mono-C16-24-alkyl derivs, calcium salts - LD50 oral: > 5000 mg/kg (OECD 401) - LD50 dermal: > 2000 mg/kg (OECD 402)
Sensitization:	The supplier of one of the components contained within this formulation has indicated that they have data, which confirms that at the concentration used, no sensitisation classification is required. Not classified as a sensitizer. May produce an allergic reaction.
Carcinogenicity:	Not classified as carcinogenous.
Mutagenicity:	Not classified as mutagenic.
Reproductive toxicity:	This product does not present any known or suspected reproductive hazards.
Repeated dose toxicity	
Subchronic toxicity:	No information available.
Target organ effects (STOT):	No information available.
Other adverse effects:	Characteristic skin lesions (oil blisters) may develop following prolonged and repeated exposures (contact with contaminated clothing).

12. Ecological Information

Toxicity:	Not classified.
Acute aquatic toxicity\components:	Benzenesulphonic acid, C10-16-alkyl derivs, calcium salts 68584-23-6 - Algae: > EL50 (72h) >1000 mg/l, Pseudokirchneriella subcapitata - Daphnia or other aquatic invertebrates: EL50 (48h) > 1000 mg/l Daphnia magna - Fish: LL50(96h) > 10000 mg/l Cyprinodon variegatus (OECD 203) Sulphonic acids, petroleum, calcium salts 61789-86-4 - Algae: > EC50 (72h) >1000 mg/l, Pseudokirchneriella subcapitata - Daphnia or other aquatic invertebrates: EC50 (48h) > 1000 mg/l, Daphnia magna (OECD 202) - Fish: LC50 (96h) > 10000 mg/l, Cyprinodon variegatus (OECD 203) Benzenesulphonic acid, mono-C16-24-alkyl derivs, calcium salts 70024-69-0 - Algae: EC50 (72h) > 1000 mg/l, Pseudokirchnerella subcapitata, static - Daphnia or other aquatic invertebrates: EC50 (48h) > 1000 mg/l, Daphnia magna, static - Fish: LL50 (96h) > 10000 mg/l, Cyprinodon variegatus (OECD 203)
Chronic aquatic toxicity:	No information available.
Effects on terrestrial organisms	No information available.
Persistence and degradability:	No information available.
Bioaccumulative potential:	
Product information	No information available.
logPow	No information available.
Component information	No information available.
Mobility in soil:	Soil: Given its physical and chemical characteristics, the product has no soil mobility. Air: Loss by evaporation is limited. Water: The product is insoluble and floats on water.
PBT and vPvB properties:	No information available.

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13. Disposal Considerations

Waste from Residues / Unused Products:	Should not be released into the environment. Dispose of in accordance with local regulations.
EWC Waste Disposal No.:	The following Waste Codes are only suggestions: 12 01 12. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.
Disposal of contaminated packaging:	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

Road (ADR)/Rail (RID):	Not regulated.
Transport by barge (ADN):	Not regulated.
Marine (IMO/IMDG):	Not regulated.
Air (ICAO/IATA):	Not regulated.

15. Regulatory Information

European Union	
Chemical Safety Assessment:	No information available.
National regulatory information:	
The United Kingdom	Avoid exceeding occupational exposure limits (see section 8).
Ireland	Avoid exceeding occupational exposure limits (see section 8).

16. Other Information

Explanations of hazard statements in section 2 and 3:	H317 - May cause an allergic skin reaction
OECD:	Organization for Economic Co-operation and Development
bw	body weight
bw/day	body weight/day
fw	fresh water
mw	marine water
or	occasional release
dw	dry weight
NIOSH	National Institute of Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
DNEL	Derived No Effect Concentration
PNEC	Predicted No Effect Concentration
LD50	50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals
LC50	50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals
LL	Lethal Loading
TWA	Time Weighted Average
STEL	Short Term Exposure Limit
REL	Recommended exposure limit
TLV	Threshold Limit Values