## **OTTO CHEMIE PVT LTD**

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MATERIAL SAFETY DATA SHEET

1.Identification 1.1GHS Product identifier Sulpholane, GR 99%+ Code S 2777	
2.Hazard identification 2.1Classification of the subs Acute toxicity - Oral, Catego 2.2GHS label elements, incl Pictogram(s)	
Signal word Hazard statement(s) Precautionary statement(s)	Warning H302 Harmful if swallowed
Prevention Response	P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/u2026if you feel unwell. P330 Rinse mouth.
Storage Disposal 2.3Other hazards which do	none P501 Dispose of contents/container to
none	
3.Composition/information c 3.1Substances	ningrealents
Chemical name Common u sulfolane sulfolane	names and synonyms CAS number EC number Concentration 126-33-0 none 100%
sulfolane sulfolane	
sulfolane   sulfolane     4.First-aid measures   4.1Description of necessary	126-33-0 hone 100%
sulfolane   sulfolane     4.First-aid measures   4.1Description of necessary     General advice   1000000000000000000000000000000000000	first-aid measures
sulfolane   sulfolane     4.First-aid measures   4.1Description of necessary     General advice   Consult a physician. Show the subscription of necessary	first-aid measures his safety data sheet to the doctor in attendance.
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sulfolane   sulfolane     4.First-aid measures   4.1Description of necessary     General advice   Consult a physician. Show t     If inhaled   If breathed in, move person     In case of skin contact   Wash off with soap and pler     In case of eye contact   Rinse thoroughly with plenty     If swallowed   Never give anything by mouted available     4.3Indication of immediate r   no data available     5.Fire-fighting measures   5.1Extinguishing media     Suitable extinguishing media   Suitable extinguishing media	first-aid measures his safety data sheet to the doctor in attendance. into fresh air. If not breathing, give artificial respiration. Consult a physician. hty of water. Consult a physician. y of water for at least 15 minutes and consult a physician. th to an unconscious person. Rinse mouth with water. Consult a physician. s/effects, acute and delayed medical attention and special treatment needed, if necessary
sulfolane   sulfolane     4.First-aid measures   4.1Description of necessary     General advice   Consult a physician. Show t     Consult a physician. Show t   If inhaled     If breathed in, move person   In case of skin contact     Wash off with soap and pler   In case of eye contact     Rinse thoroughly with plenty   If swallowed     Never give anything by mout   4.2Most important symptom     no data available   4.3Indication of immediate r     5.Fire-fighting measures   5.1Extinguishing media     Suitable extinguishing media   Suitable extinguishing media     Suitable extinguishing media   Suitable extinguishing media	first-aid measures his safety data sheet to the doctor in attendance. into fresh air. If not breathing, give artificial respiration. Consult a physician. hty of water. Consult a physician. y of water for at least 15 minutes and consult a physician. tht to an unconscious person. Rinse mouth with water. Consult a physician. s/effects, acute and delayed medical attention and special treatment needed, if necessary
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6.Accidental release measures

6.1Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. 6.3Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7.Handling and storage

7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2. 7.2Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8.Exposure controls/personal protection

8.1Control parameters

Occupational Exposure limit values

no data available Biological limit values

no data available

8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. 8.3Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Wear dust mask when handling large quantities. Thermal hazards no data available

9. Physical and chemical properties

Physical state	Clear colourless liquid
Colour	no data available
Odour	no data available
Melting point/ freezing point/	153\u00b0C(lit.)
Boiling point or initial boiling	285\u00b0C(lit.)
point and boiling range	
Flammability	no data available
Lower and upper explosion	no data available
limit / flammability limit	//
Flash point	108\u00b0C(lit.)
Auto-ignition temperature	no data available
Decomposition temperature	
pH	no data available
Kinematic viscosity	no data available
Solubility	In water:soluble
Partition coefficient n-	no data available
octanol/water (log value)	
Vapour pressure	0.01 mm Hg ( 20 \u00b0C)
Density and/or relative	1.261
density	
Relative vapour density	4.2 (vs air)
Particle characteristics	no data available
10.Stability and reactivity	
10.1Reactivity	
no data available	
10.2Chemical stability	
Stable under recommended	storage conditions.
10.3Possibility of hazardous	0

no data available

10.4Conditions to avoid no data available 10.5Incompatible materials no data available 10.6Hazardous decomposition products no data available

11.Toxicological information Acute toxicity Oral: no data available Inhalation: no data available Dermal: no data available Skin corrosion/irritation no data available Serious eye damage/irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity no data available Reproductive toxicity no data available STOT-single exposure no data available STOT-repeated exposure no data available Aspiration hazard no data available

12.Ecological information 12.1Toxicity Toxicity to fish: no data available Toxicity to daphnia and other aquatic invertebrates: no data available Toxicity to algae: no data available Toxicity to microorganisms: no data available 12.2Persistence and degradability no data available 12.3Bioaccumulative potential no data available 12.4Mobility in soil no data available 12.5Other adverse effects no data available

13.Disposal considerations 13.1Disposal methods Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems. Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14.Transport information 14.1UN Number ADR/RID: UN1760	IMDG: UN1760	IATA: UN1760			
14.2UN Proper Shipping Name					
ADR/RID: CORROSIVE LIQUID, N.O.S.					
IMDG: CORROSIVE LIQUID, N.O.	S.				
IATA: CORROSIVE LIQUID, N.O.S	S.				
14.3Transport hazard class(es)					
ADR/RID: 8	IMDG: 8	IATA: 8			
14.4Packing group, if applicable					
ADR/RID: III	IMDG: III	IATA: III			
14.5Environmental hazards					
ADR/RID: no	IMDG: no	IATA: no			
14.6Special precautions for user					

## no data available

14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code no data available

15.Regulatory information

15.1Safety, health and environmental regulations specific for the product in question

To reality, nearly and environmental regulations specific for the product in question				
Chemical name	Common names and synonyms	CAS number	EC number	
sulfolane	sulfolane	126-33-0	none	
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.	
EC Inventory			Listed.	
United States Toxic Substances Control Act (TSCA) Inventory			Listed.	
China Catalog of Hazardous chemicals 2015			Not Listed.	
New Zealand Inventory of Chemicals (NZIoC)			Listed.	
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.	
Vietnam National Chemical Inventory			Not Listed.	
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed.	

## Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.