

CAS-No.: 7719-09-7 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Substance • EC-No. : 231-748-8 CAS-No. : 7719-09-7 Product code : 06282 Chemical structure . : Sulfurous Dichloride / Dichlorosulfoxide / Sulfur oxide dichloride Synonyms 1.2. Relevant identified uses of the substance or mixture and uses advised against **Relevant identified uses** 1.2.1. Industrial/Professional use spec : Industrial For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

SECTION 2: Hazards identification

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

Corrosive to metals,	H290
Category 1	
Acute toxicity (oral),	H302
Category 4	
Acute toxicity (inhal.),	H332
Category 4	
Skin corrosion/irritation,	H314
Category 1A	

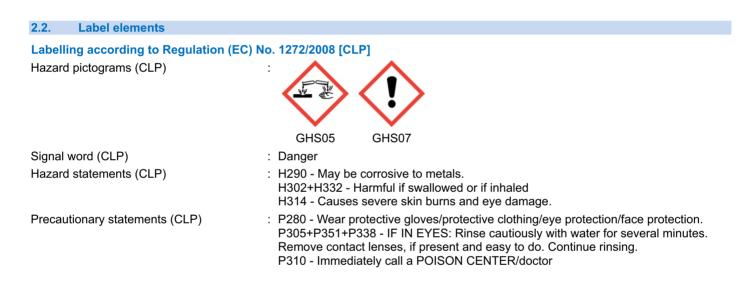
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Full text of H statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Xn; R20/22 C; R35 R14 R29 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available



2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
THIONYL CHLORIDE FOR SYNTHESIS	(CAS-No.) 7719-09-7 (EC-No.) 231-748-8	100

Full text of R- and H-statements: see section 16

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measure	
	S
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact	 Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.
First-aid measures after eye contact	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	: Harmful if inhaled.
Symptoms/effects after ingestion	: Harmful if swallowed.
4.3. Indication of any immediate me	dical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Dry powder.
Unsuitable extinguishing media	: Do not use extinguishing media containing water.
5.2 Cuesial bereads evision from th	
5.2. Special hazards arising from the No additional information available	e substance or mixture
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measure	95
	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	
Energency procedures	: Stop release.
6.2. Environmental precautions	: Stop release.
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6.2. Environmental precautions	th this material.
6.2. Environmental precautions Do not allow water (or moist air) contact wi	th this material.
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7.2. Conditions for safe storage, inc	luding any incompatibilities
Storage conditions	: Store in dry protected location to prevent any moisture contact.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/persona	l protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or face shield
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear appropriate mask
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical a	
Physical state	: Liquid
Molecular mass Colour	: 118.97 g/mol : Clear colorless to pale yellow.
Odour	: characteristic, pungent odor.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -105 °C
Freezing point	: No data available
Boiling point	: 79 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 129 hPa at 20 °C
Relative vapour density at 20 °C	: 4.1
Relative density	: No data available
Density	: 1.64 g/cm ³

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Solubility	: Water: Decomposed by water
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
May be corrosive to metals.	

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Highly reactive material. Reacts violently with water. Contact with water liberates toxic gas.

10.4. Conditions to avoid

Moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological ef	ffects
Acute toxicity	: Oral: Harmful if swallowed. Inhalation: Harmful if inhaled.
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Serious eye damage, category 1, implicit
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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SECTION 12: Ecological information 12.1. Toxicity No additional information available 12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential No additional information available 12.4. Mobility in soil No additional information available 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment No additional information available 12.6. Other adverse effects No additional information available 12.6. Other adverse effects No additional information available 12.1. Waste treatment methods Product/Packaging disposal recommendations 13.1. Waste treatment methods Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. : Do not allow water (or moist air) contact with this material.
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recommendations accordance with local, regional, national and/or international regulation.
Additional information : Do not allow water (or moist air) contact with this material.
SECTION 14: Transport information
In accordance with ADR / RID / IMDG / IATA / ADN
14.1. UN number
UN-No. (ADR) : 1836
UN-No. (IMDG) : 1836
UN-No. (IATA) : 1836
UN-No. (ADN) : 1836
UN-No. (RID) : 1836
14.2. UN proper shipping name
Proper Shipping Name (ADR) : THIONYL CHLORIDE
Proper Shipping Name (IMDG) : THIONYL CHLORIDE
Proper Shipping Name (IATA) : Thionyl chloride Proper Shipping Name (ADN) : THIONYL CHLORIDE
Proper Shipping Name (ADN) : THIONYL CHLORIDE Proper Shipping Name (RID) : THIONYL CHLORIDE

Transport document description (IMDG) Transport document description (IATA) Transport document description (ADN)	: UN 1836 THIONYL CHLORIDE, 8, I : UN 1836 Thionyl chloride, 8 : UN 1836 THIONYL CHLORIDE, 8, I
Transport document description (RID)	: UN 1836 THIONYL CHLORIDE, 8, I
14.3. Transport hazard class(es) ADR	
Fransport hazard class(es) (ADR) Danger labels (ADR)	: 8 : 8
	8
MDG	
Transport hazard class(es) (IMDG)	: 8
Danger labels (IMDG)	: 8
ATA	
Transport hazard class(es) (IATA)	: 8
ADN	
Transport hazard class(es) (ADN)	: 8
Danger labels (ADN)	: 8
RID	
	•

Transport hazard class(es) (RID) Danger labels (RID)





14.4. Packing group	
Packing group (ADR)	: 1
Packing group (IMDG)	: 1
Packing group (IATA)	: Not applicable
Packing group (ADN)	: 1
Packing group (RID)	: 1

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14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user	
- Overland transport Classification code (ADR)	: C1
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P802
Mixed packing provisions (ADR)	: MP8, MP17
Portable tank and bulk container instructions (ADR)	: T10
Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L10BH
Vehicle for tank carriage	: AT
Transport category (ADR)	: 1
Special provisions for carriage - Operation (ADR)	: S20
Hazard identification number (Kemler No.)	: X88
Orange plates	X88
	1836
Tunnel restriction code (ADR)	: E
EAC code	: 4WE
APP code	: В
- Transport by sea	
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P802
Tank instructions (IMDG)	: T10
Tank special provisions (IMDG)	: TP2, TP13
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: C
Stowage and handling (IMDG)	: SW2
MFAG-No	: 137
- Air transport	
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: Forbidden
PCA max net quantity (IATA)	: Forbidden
CAO packing instructions (IATA)	: Forbidden
CAO max net quantity (IATA)	: Forbidden
Special provisions (IATA)	: A2
ERG code (IATA)	: 8W

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- Inland waterway transport	
Classification code (ADN)	: C1
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: C1
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P802
Mixed packing provisions (RID)	: MP8, MP17
Portable tank and bulk container instructions (RID)	: T10
Portable tank and bulk container special provisions (RID)	: TP2
Tank codes for RID tanks (RID)	: L10BH
Special provisions for RID tanks (RID)	: TU38, TE22
Transport category (RID)	: 1
Hazard identification number (RID)	: X88

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

THIONYL CHLORIDE FOR SYNTHESIS is not on the REACH Candidate List THIONYL CHLORIDE FOR SYNTHESIS is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Reference to AwSV	: Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV; ID No. 1244)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands	

SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	

: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment No additional information available

Recommendations Danish Regulation

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.
R14	Reacts violently with water
R20/22	Harmful by inhalation and if swallowed
R29	Contact with water liberates toxic gas
R35	Causes severe burns
С	Corrosive
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product