

CAS No: MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the su	ubstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product code	: 06227
1.2. Relevant identified uses o	f the substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: Laboratory chemicals, Manufacture of substances
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of t	he safety data sheet
SPAN LAB	
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

T; R23/24/25

T; R39/23/24/25 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols

R-phrases

S-phrases



T - Toxic

the manufacturer)

S24 - Avoid contact with skin

(show the label where possible)

 R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed R39/23/24/25 - Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
 S4 - Keep away from living guarters

S35 - This material and its container must be disposed of in a safe way

S38 - In case of insufficient ventilation, wear suitable respiratory equipment S45 - In case of accident or if you feel unwell, seek medical advice immediately

S59 - Refer to manufacturer/supplier for information on recovery/recycling

S36/37 - Wear suitable protective clothing and gloves

S28 - After contact with skin, wash immediately with plenty of ... (to be specified by

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methanol	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603- 001-00-X	75 - 99	F; R11 T; R23/24/25 T; R39/23/24/25	Flam. Liq. 2, H225 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 STOT SE 1, H370
TETRAMETHYL AMMONIUM HYDROXIDE 25% IN METHANOL	(CAS No) 75-59-2	15 - 25	Not classified	Not classified

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

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SECTION 4: First aid measures

SECTION 4. Thist and measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a POISON CENTER or doctor/physician. Specific treatment (see on this label).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Immediately call a POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Specific measures (see on this label). Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Rinse mouth. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see on this label).
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries	: Causes damage to organs. Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation	: Toxic if inhaled.
Symptoms/injuries after skin contact	: Toxic in contact with skin.
Symptoms/injuries after ingestion	: Toxic if swallowed.
4.3. Indication of any immediate med	ical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: Highly flammable liquid and vapour.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measures	

6.1.	Personal precautions, protective	equipment and emergency procedures
	For non-emergency personnel ncy procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protectiv	/e equipment	: Avoid breathing dust/fume/gas/mist/vapours/spray.
Emerge	ncy procedures	: Stop release.
6.2.	Environmental precautions	
Avoid ro	loose to the environment	

Avoid release to the environment.

6.3.	Methods and material for contain	nm	ent and cleaning up
Methods	for cleaning up		Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

6.4. Reference to other sections

No additional information available

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SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precau	itions for safe handling	: Do not breathe dust/fume/gas/mist/vapours/spray.
Hygien	e measures	: Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
7.2.	Conditions for safe storage, ind	cluding any incompatibilities
Storag	e conditions	: Store in original container. Keep container tightly closed. Store in a dry place. Protect from moisture.
7.3.	Specific end use(s)	
No add	ditional information available	
SECTI	ON 8: Exposure controls/persona	al protection
8.1.	Control parameters	

No additional information available

8.2. Exposure controls			
Hand protection	: protective gloves		
Eye protection	: Chemical goggles or safety glasses		
Skin and body protection	: Wear suitable protective clothing		
Respiratory protection	: Wear respiratory protection		
SECTION 9: Physical and chemical properties			
9.1. Information on basic physical a	nd chemical properties		
Physical state	: Liquid		
Colour	: Clear Colorless.		
Odour	: alcoholic odour.		
Odour threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butylacetate=1)	: 5.2		
Melting point	: -97.8 °C		
Freezing point	: No data available		
Boiling point	: 63.9 °C		
Flash point	: 6 °C		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Flammable		

Vapour pressure	: 29 mm Hg (at 20°C)
Relative vapour density at 20 °C	: 1.1
Relative density	: No data available
Density	: 0.8 g/cm ³
Solubility	: Water: Soluble in 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
No additional information available	
SECTION 10: Stability and reactivity	
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Acute toxicity

: Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

sified
sified

Toxicity for reproduction	: Not classified
Potential adverse human health effects and symptoms	s : Toxic if swallowed. Toxic in contact with skin.
SECTION 12: Ecological information	1
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	ity
No additional information available	
2.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
I2.5. Results of PBT and vPvB as	ssessment
No additional information available	
2.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Product/Packaging disposal ecommendations	: Dispose of contents/container to
Ecology - waste materials	: Hazardous waste due to toxicity.

14.1. UN number	
UN-No. (ADR)	: 3286
UN-No. (IMDG)	: 3286
UN-No.(IATA)	: 3286
UN-No.(ADN)	: 3286
UN-No. (RID)	: 3286
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.
Proper Shipping Name (IATA)	: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.

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Safety Data Sheet	
Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR) Transport document description (IMDG) Transport document description (IATA) Transport document description (ADN) Transport document description (RID)	 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II, (D/E) UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II UN 3286 FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S., 3 (6.1+8), II
14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR) Danger labels (ADR)	: 3 (6.1, 8) : 3, 6.1, 8
IMDG	
Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 3 (6.1, 8) : 3, 6.1, 8
ΙΑΤΑ	
Transport hazard class(es) (IATA) Hazard labels (IATA)	: 3 (6.1, 8) : 3, 6.1, 8
ADN	
Transport hazard class(es) (ADN) Danger labels (ADN)	: 3 (6.1, 8) : 3, 6.1, 8
RID	
Transport hazard class(es) (RID) Danger labels (RID)	: 3 (6.1, 8) : 3, 6.1, 8

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14.4. Packing group			
Packing group (ADR)	: 11		
Packing group (IMDG)	: 11		
Packing group (IATA)	: 11		
Packing group (ADN)	: 11		
Packing group (RID)	: 11		

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)	: FTC
Special provision (ADR)	: 274
Limited quantities (ADR)	: 1L
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T11
Portable tank and bulk container special provisions (ADR)	: TP2, TP27
Tank code (ADR)	: L4BH
Tank special provisions (ADR)	: TU15
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S2, S22
	: S2, S22 : 368
(ADR)	
(ADR) Hazard identification number (Kemler No.)	: 368
(ADR) Hazard identification number (Kemler No.)	368 368
(ÅDR) Hazard identification number (Kemler No.) Orange plates	368 368 3286
(ÅDR) Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR)	: 368 368 3286 : D/E
(ÅDR) Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code APP code	: 368 368 3286 : D/E : •3WE
(ADR) Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code APP code - Transport by sea	: 368 368 3286 : D/E : •3WE : A(fl)
(ADR) Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code APP code - Transport by sea Special provision (IMDG)	: 368 368 3286 : D/E : •3WE : A(fl) : 274
(ADR) Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code APP code - Transport by sea Special provision (IMDG) Limited quantities (IMDG)	: 368 368 3286 : D/E : •3WE : A(fl) : 274 : 1 L
(ADR) Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code APP code - Transport by sea Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG)	: 368 : 368 3286 : D/E : •3WE : A(fl) : 274 : 1 L : E2
(ADR) Hazard identification number (Kemler No.) Orange plates Tunnel restriction code (ADR) EAC code APP code - Transport by sea Special provision (IMDG) Limited quantities (IMDG)	: 368 368 3286 : D/E : •3WE : A(fl) : 274 : 1 L

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Tank instructions (IMDG)	: T11
Tank special provisions (IMDG)	: TP2, TP13, TP27
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-C
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: SW2
Segregation (IMDG)	: SG5, SG8
MFAG-No	: 131
- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y340
PCA limited quantity max net quantity	: 0.5L
(IATA) PCA packing instructions (IATA)	: 352
PCA max net quantity (IATA)	: 002 : 1L
CAO packing instructions (IATA)	: 363
CAO max net quantity (IATA)	: 505 : 5L
ERG code (IATA)	: 3CP
 Inland waterway transport 	
Classification code (ADN)	: FTC
Special provisions (ADN)	: 274, 802
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: Т
Equipment required (ADN)	: PP, EP, EX, TOX, A
Ventilation (ADN)	: VE01, VE02
Number of blue cones/lights (ADN)	: 2
- Rail transport	
Classification code (RID)	: FTC
Special provision (RID)	: 274
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T11
Portable tank and bulk container special provisions (RID)	: TP2, TP27
Tank codes for RID tanks (RID)	: L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Loading and unloading (RID)	: CW13, CW28
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 368
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

15.1.2. National regulations

Germany	
AwSV/VwVwS Annex reference	: Water hazard class (WGK) 1, slightly hazardous to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Denmark	
Class for fire hazard	: Class I-1
Store unit	: 1 liter
Classification remarks	: F <flam. 2="" liq.="">; Emergency management guidelines for the storage of flammable liquids must be followed</flam.>
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin

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H331	Toxic if inhaled
H370	Causes damage to organs
R11	Highly flammable
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
F	Highly flammable
Т	Toxic

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