

CAS-No.: MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking



1.2. Relevant identified uses of 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 the safety data sheet

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

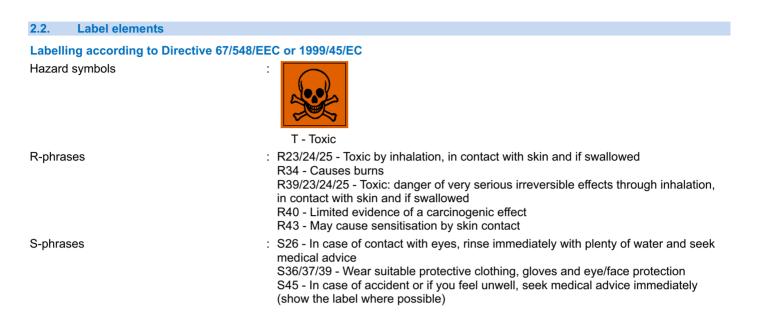
Carc.Cat.3; R40 T; R23/24/25 T; R39/23/24/25 C; R34 R43

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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

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS-No.) 7732-18- 5 (EC-No.) 231-791-2	62 - 65	Not classified	Not classified
Formaldehyde	(CAS-No.) 50-00-0 (EC-No.) 200-001-8 (EC Index-No.) 605- 001-00-5	36.5 - 38	Carc.Cat.3; R40 T; R23/24/25 C; R34 Xi; R37 R43	Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Eye Dam. 1, H318 Carc. 2, H351 STOT SE 3, H335 Skin Sens. 1, H317

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

SECTION 4: First aid measures		
1.4 Dependention of first aid measure		
4.1. Description of first aid measures		
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	: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.	
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.	
First-aid measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.	
4.2. Most important symptoms and e	ffects, both acute and delayed	
Symptoms/effects	: Causes severe skin burns and eye damage. Causes damage to organs.	
Symptoms/effects after inhalation	: May cause an allergic skin reaction.	
Symptoms/effects after skin contact	: Toxic in contact with skin.	
Symptoms/effects after ingestion	: Toxic if swallowed.	
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4.3. Indication of any immediate med	lical 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		
No additional information available		
5.3. Advice for firefighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.	
SECTION 6: Accidental release measures	5	
6.1. Personal precautions, protective	e equipment and emergency procedures	
6.1.1. For non-emergency personnel	Juli	
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment	: Avoid breathing dust/fume/gas/mist/vapours/spray.	
Emergency procedures	: Stop release.	
C 		
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for contain	nment 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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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Store in original container. Keep container tightly closed. Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s)	
No additional information available	
SECTION 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 face shield
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear appropriate mask
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Colour	: Clear Colorles.
Odour	: Pungent.
Odour threshold	: No data available
рН	: 2.8
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -150 °C
Freezing point	: No data available
Boiling point	: 96 °C
Flash point	: 64 °C
Auto-ignition temperature	: 300 °C
Decomposition temperature	: No data available

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Flammability (solid, gas)	CH) with its amendment Regulation (EU) 2015/830 : No data available
Vapour pressure	:1.3 mm Hg at 20°C
Relative vapour density at 20 °C	: 1.04
Relative density	: No data available
Density	: 1.08 g/cm ³
Solubility	: Water: Infinitely soluble
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	: 0.07 - 0.73 vol %
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	,
10.1. Reactivity	
Thermal decomposition generates : Co	prrosive vapours.
10.2. Chemical stability	
No additional information available	
10.3. Possibility of hazardous rea	actions
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition	
Thermal decomposition generates : Co	prrosive vapours.
SECTION 11: Toxicological informat	ion
11.1. Information on toxicologica	Il effects
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
Irritation	: Not classified
	pH: 2.8
Corrosivity	: Causes burns. pH: 2.8
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: Not classified
: Limited evidence of a carcinogenic effect.
: Not classified
: Not classified

Potential adverse human health effects and symptoms

: Toxic if swallowed. Toxic in contact with skin.

SECTION 12: Eco	logical information		
12.1. Toxicity			

No additional information available

12.2.	Persistence and degradability	
No ado	litional information available	
12.3.	Bioaccumulative potential	
No ado	litional information available	
12.4.	Mobility in soil	
No ado	litional information available	
12.5.	Results of PBT and vPvB asses	ssment
No ado	litional information available	
12.6.	Other adverse effects	
No ado	litional information available	
SECTI	ON 13: Disposal considerations	
13.1.	Waste treatment methods	
	t/Packaging disposal nendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Ecolog	y - waste materials	: Hazardous waste due to toxicity.
SECT	ON 14: Transport information	

In accordance with ADR / RID / IMDG / IATA / ADN

		00/04/0045	0///
Proper Shipping Name (ADR)	: FORMALDEHYDE SOLUTION		
14.2. UN proper shipping name			
	. 2200		
UN-No. (RID)	: 2209		
UN-No. (ADN)	: 2209		
UN-No. (IATA)	: 2209		
UN-No. (IMDG)	: 2209		
UN-No. (ADR)	: 2209		
14.1. UN number			

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Proper Shipping Name (IMDG)	: FORMALDEHYDE SOLUTION
Proper Shipping Name (IATA)	: Formaldehyde solution
Proper Shipping Name (ADN)	: FORMALDEHYDE SOLUTION
Proper Shipping Name (RID)	: FORMALDEHYDE SOLUTION
Transport document description (ADR)	: UN 2209 FORMALDEHYDE SOLUTION, 8, III, (E)
Transport document description (IMDG)	: UN 2209 FORMALDEHYDE SOLUTION, 8, III
Transport document description (IATA)	: UN 2209 Formaldehyde solution, 8, III
Transport document description (ADN)	: UN 2209 FORMALDEHYDE SOLUTION, 8, III
Transport document description (RID)	: UN 2209 FORMALDEHYDE SOLUTION, 8, III

14.3. Transport hazard class(es)

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



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IMDG

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



IATA

Transport hazard class(es) (IATA) Hazard labels (IATA)

ADN

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

RID

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

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:



14.4. Packing group		
Packing group (ADR)	: 111	
Packing group (IMDG)	: 111	
Packing group (IATA)	: 111	
Packing group (ADN)	: 111	
Packing group (RID)	: 111	
14.5. Environmental hazards		

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special	precautions f	or user
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- Overland transport		
Classification code (ADR)	:	C9
Special provisions (ADR)	:	533
Limited quantities (ADR)	:	51
Excepted quantities (ADR)	:	E1
Packing instructions (ADR)	:	P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	:	MP19
Portable tank and bulk container instructions (ADR)	:	Τ4
Portable tank and bulk container special provisions (ADR)	:	TP1
Tank code (ADR)	:	L4BN
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	3
Special provisions for carriage - Packages (ADR)	:	V12
Hazard identification number (Kemler No.)	:	80
Orange plates	:	80
		2209
Tunnel restriction code (ADR)	:	E
EAC code	:	•2X
- Transport by sea		
Packing instructions (IMDG)	:	P001, LP01
IBC packing instructions (IMDG)		IBC03
Tank instructions (IMDG)	:	Τ4
Tank special provisions (IMDG)	:	TP1
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-B
Stowage category (IMDG)	:	А
Properties and observations (IMDG)	:	Colourless, clear liquid, with a suffocati methyl alcohol. Miscible with water. Ca

Colourless, clear liquid, with a suffocating pungent odour. Usually stabilized with methyl alcohol. Miscible with water. Causes burns to skin, eyes and mucous membranes.

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MFAG-No	: 132
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A803
ERG code (IATA)	: 8i
- Inland waterway transport	
Classification code (ADN)	: C9
Special provisions (ADN)	: 533
Limited quantities (ADN)	: 5L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: C9
Special provisions (RID)	: 533
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80

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

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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15.1.2. National regulations

Germany

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Reference to AwSV	:	Water hazard class (WGK) 3, severe hazard to water (Classification according to AwSV, Annex 1)
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	:	Formaldehyde is listed
SZW-lijst van mutagene stoffen	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	None of the components are listed
Denmark		
Class for fire hazard	:	Class III-1
Store unit	:	50 liter
Classification remarks	:	Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
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
		The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Carc. 2	Carcinogenicity, Category 2	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H301	Toxic if swallowed.	
H310	Fatal in contact with skin.	
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H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R34	Causes burns
R37	Irritating to respiratory system
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R40	Limited evidence of a carcinogenic effect
R43	May cause sensitisation by skin contact
С	Corrosive
Т	Тохіс
Xi	Irritant

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