

CAS No: MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

Full text of classification categories and H statements : see section 16

exposure, Category 1

Safety Data Sheet

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC) N Hazard pictograms (CLP)	Io. 1272/2008 [CLP]
	GHS02 GHS06 GHS08
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H225 - Highly flammable liquid and vapour H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H370 - Causes damage to organs
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P260 - Do not breathe dust/fume/gas/mist/vapours/spray P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/ P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P311 - Call a POISON CENTER/doctor/

2.3. Other hazards

No additional information available

SECTIC	SECTION 3: Composition/information on ingredients		
3.1.	Substance		
Not app	licable		

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
METHANOL EXTRA PURE	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X	70 - 75	Flam. Liq. 2, H225 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 STOT SE 1, H370
2,4-DINITROPHENYL HYDRAZINE 98%	(CAS No) 119-26-6	5 - 10	Acute Tox. 4 (Oral), H302

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SULPHURIC ACID 98% EXTRA PURE	(CAS No) 7664-93-9 (EC no) 231-639-5 (EC index no) 016-020-00-8	5 - 8	Skin Corr. 1A, H314
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Full text of H-phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measu	res
First-aid measures after inhalation	: Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Remove/Take off immediately all contaminated clothing. Get immediate medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and	d effects, both acute and delayed
Symptoms/injuries	: Causes damage to organs.
Symptoms/injuries after inhalation	: Toxic if inhaled.
Symptoms/injuries after skin contact	: Toxic in contact with skin. Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Toxic if swallowed.
4.3. Indication of any immediate m	nedical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use extinguishing media containing water.
5.2. Special hazards arising from t	he substance or mixture
Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measu	res
6.1. Personal precautions, protect	ive equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.
6.1.1. For non-emergency personne	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	

Avoid release to the environment.

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: On land, sweep or shovel into suitable containers.
: Handle empty containers with care because residual vapours are flammable.
: No naked lights. No smoking. Use only non-sparking tools. Do not breathe vapours.
: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
uding any incompatibilities
 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/ equipment.
: Keep in fireproof place. Keep container tightly closed.
: Heat sources.
protection

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 respiratory protection
SECTION 9: Physical and chemical pro	perties
9.1. Information on basic physical a	and chemical properties
Physical state	: Liquid
Colour	: Orange to red.
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -98 °C

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Freezing point	: No data available
Boiling point	: 64.7 °C
Flash point	: 11 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapour. Highly flammable liquid and vapour
Vapour pressure	: 96.5 at 20°C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density Solubility	: 0.8 g/cm³ : No data available
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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	: 0.055 - 0.365 vol %
9.2. Other information	

No additional information available

SECTIC	SECTION 10: Stability and reactivity		
10.1.	Reactivity		
No addi	tional information available		
10.2.	Chemical stability		
Highly fl	ammable liquid and vapour. May form flammable/explosive vapour-air mixture.		

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat. Open flame.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information	
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11.1. Information on toxicological effects

Acute toxicity

: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:gas: Toxic if inhaled.

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ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Causes damage to organs.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	
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12.1. Toxicity No additional information available

12.2.	Persistence and degradability
No addit	tional information available
10.0	
12.3.	Bioaccumulative potential
No addit	tional information available
12.4.	Mobility in soil
No addit	tional information available
12.5.	Results of PBT and vPvB assessment
No addit	tional information available
12.6.	Other adverse effects
	tional information available
SECTIO	N 13: Disposal considerations
13.1.	Waste treatment methods
No addit	tional information available

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SECTION 14: Transport information

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

 14.1. UN number UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR) Transport document description (IATA) Transport document description (IATA) Transport document description (ADN) Transport document description (ADN) Transport document description (ADN) Transport document description (RID) 	 1230 1230 1230 1230 1230 1230 1230 1230 METHANOL METHANOL METHANOL METHANOL METHANOL UN 1230 METHANOL, 3 (6.1), II, (D/E) UN 1230 METHANOL, 3 (6.1), II (12°C c.c.) UN 1230 METHANOL, 3 (6.1), II UN 1230 METHANOL, 3 (6.1), II
44.2 Transment howard class(ac)	
14.3.Transport hazard class(es)ADRTransport hazard class(es) (ADR)Danger labels (ADR)	: 3 (6.1) : 3, 6.1 : 3 5 5 5 5 5 5 5 5 5 5 5 5 5
IMDG Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 3 (6.1) : 3, 6.1
IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	: 3 (6.1) : 3, 6.1
ADN Transport hazard class(es) (ADN)	: 3 (6.1)

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Danger labels (ADN)	: 3, 6.1
RID	
Transport hazard class(es) (RID) Danger labels (RID)	: 3 (6.1) : 3, 6.1
14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IMDG)	: 11
Packing group (IATA)	: 11
Packing group (ADN)	: 11
Packing group (RID)	: 11
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for use	r
- Overland transport	

		1230
Orange plates	:	336
Hazard identification number (Kemler No.)	:	336
Special provisions for carriage - Operation (ADR)	:	S2, S19
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV13, CV28
Transport category (ADR)	:	2
Vehicle for tank carriage	:	FL
Tank special provisions (ADR)	:	TU15
Tank code (ADR)	:	L4BH
Portable tank and bulk container special provisions (ADR)	:	TP2
Portable tank and bulk container instructions (ADR)	:	Τ7
Mixed packing provisions (ADR)	:	MP19
Packing instructions (ADR)	:	P001, IBC02
Excepted quantities (ADR)	:	E2
Limited quantities (ADR)	:	1L
Special provision (ADR)	:	279
Classification code (ADR)	:	FT1
- Overland transport		

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Tunnel restriction code (ADR)	: D/E
EAC code	: •2WE
APP code	: A(fl)
- Transport by sea	
Special provision (IMDG)	: 279
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: SW2
Flash point (IMDG)	: 12°C c.c.
	. 12 0 0.0.
- Air transport	50
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 352
PCA max net quantity (IATA)	: 352 : 1L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provision (IATA)	
ERG code (IATA)	: A104, A113 : 3L
ERG code (IATA)	. 3L
 Inland waterway transport 	
Classification code (ADN)	: FT1
Special provisions (ADN)	: 279, 802
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP, EX, TOX, A
Ventilation (ADN)	: VE01, VE02
Number of blue cones/lights (ADN)	: 2
- Rail transport	
Classification code (RID)	: FT1
Special provision (RID)	: 279
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container	: T7
instructions (RID)	. 17
Portable tank and bulk container special	: TP2
provisions (RID)	
Tank codes for RID tanks (RID)	: L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Loading	: CW13, CW28
and unloading (RID)	

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Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 336

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 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) 3, strongly 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. BImSchV (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</flam.>	

	: F <flam. 2="" liq.="">; Emergency management guidelines for the storage of flammable</flam.>
	liquids must be followed
1.0.1	

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 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 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3			
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3			

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Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H370	Causes damage to organs

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