

CAS No: 7803-57-8 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier	
Product form	: Substance
	:
CAS No	: 7803-57-8
Product code	: 04081
Synonyms	: Hydrazinium hydroxide

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

: 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

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids,	H226
Category 3	
Acute toxicity (oral),	H301
Category 3	
Acute toxicity (dermal),	H311
Category 3	
Acute toxicity (inhal.),	H331
Category 3	
Skin corrosion/irritation,	H314
Category 1B	
Sensitisation — Skin,	H317
category 1	
Carcinogenicity, Category	H350
1A	
Hazardous to the aquatic	H410
environment — Chronic	
Hazard, Category 1	

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

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

Carc.Cat.1; R45 T; R23/24/25 C; R34 R43 N; R50/53 R10 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC) No.	o. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS02 GHS05 GHS06 GHS08 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H226 - Flammable liquid and vapour H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction H350 - May cause cancer H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (CLP)	 P201 - Obtain special instructions before use P273 - Avoid release to the environment P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients		
3.1.	Substance	
Name		: HYDRAZINE HYDRATE FOR SYNTHESIS
CAS No	c	: 7803-57-8

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

3.2. Mixture

Not applicable

SECTIO	N 4: First aid measures	
4.1.	Description of first aid measures	
	measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid	measures after skin contact	: Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
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 or doctor/physician.
First-aid	measures after ingestion	: Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
4.2.	Most important symptoms and ef	fects, both acute and delayed
Symptor	ns/injuries	: Causes severe skin burns and eye damage.
Symptor	ns/injuries after inhalation	: May cause an allergic skin reaction.
Symptor	ns/injuries after skin contact	: Toxic in contact with skin.
Symptor	ns/injuries after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.
Chronic	symptoms	: May cause cancer.
4.3.	Indication of any immediate med	ical attention and special treatment needed
No addit	tional information available	
SECTIO	N 5: Firefighting measures	
5.1.	Extinguishing media	
	extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
		: Do not use a heavy water stream.
5.2.	Special hazards arising from the	substance or mixture
Fire haz	ard	: Flammable liquid and vapour.
Explosic	on hazard	: May form flammable/explosive vapour-air mixture.
5.3.	Advice for firefighters	
		: Do not attempt to take action without suitable protective equipment.
SECTIO	N 6: Accidental release measures	
6.1.	Personal precautions, protective	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 personnel	
Emerge		: Evacuate unnecessary personnel. Do not breathe gas.
6.1.2.	For emergency responders	
Protectiv	/e equipment	: Use personal protective equipment as required.
Emerge	ncy procedures	: Ventilate area.
6.2.	Environmental precautions	

Very toxic to aquatic life with long lasting effects.

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6.3. Methods and material for cor	
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	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	q
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	: No naked lights. No smoking. Avoid contact with skin and eyes.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage,	including any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container tightly closed. Store in a well-ventilated place. Keep cool.
Incompatible materials	: Heat sources.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/perso	nal protection
8.1. Control parameters	
No additional information available	

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 prop	oerties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Colour	: Clear Colorless.
Odour	: ammonia like.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -57 °C
Freezing point	: No data available

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Boiling point	: 117 °C
Flash point	: 96 °C
Auto-ignition temperature	: 310 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour
Vapour pressure	: No data available
Relative vapour density at 20 °C	: 1.1
Relative density	: No data available
Density Solubility	: 1.028 g/cm ³ : Water: Miscible with water
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 0.9 cP
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 3.5 - 99.99 vol %

9.2.	Other information	
9.Z .		

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability

Flammable 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

Open flame. Overheating. Direct sunlight. Heat. Sparks.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases. Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information		
11.1. Information on toxicological effe	cts	
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if	

inhaled.

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Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Serious eye damage, category 1, implicit
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer.
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
HYDRAZINE HYDRATE FOR SYNTHE	SIS (7803-57-8)
Viscosity, kinematic	0.87548638 mm²/s
Potential adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin.
SECTION 12: Ecological information	

12.1. Toxicity	
Ecology - water	: Very toxic to aquatic life with long lasting effects.

12.2.	12.2. Persistence and degradability					
HYDF	HYDRAZINE HYDRATE FOR SYNTHESIS (7803-57-8)					
Persis	Persistence and degradability May cause long-term adverse effects in the environment.					

12.3.	Bioaccumulative potential				
No additional information available					
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12.4. Mobility in soil

No additional information available

12.5.	Results of PBT and vPvB assessment			
HYDR	HYDRAZINE HYDRATE FOR SYNTHESIS (7803-57-8)			
This s	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII			
This s	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII			

12.6. Other adverse effects

No additional information available

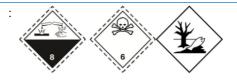
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SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Product/Packaging disposal recommendations	: Dispose of contents/container to		
Additional information	: Handle empty containers with care because residual vapours are flammable.		
Ecology - waste materials	: Hazardous waste due to toxicity.		
SECTION 14: Transport information			

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

14.1. UN number	
UN-No. (ADR)	: 2030
UN-No. (IMDG)	: 2030
UN-No.(IATA)	: 2030
UN-No.(ADN)	: Not regulated
UN-No. (RID)	: Not regulated
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: HYDRAZINE, AQUEOUS SOLUTION
Proper Shipping Name (IMDG)	: HYDRAZINE, AQUEOUS SOLUTION
Proper Shipping Name (IATA)	: HYDRAZINE, AQUEOUS SOLUTION
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
Transport document description (ADR)	: UN 2030 HYDRAZINE, AQUEOUS SOLUTION, 8 (6.1), II, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 2030 HYDRAZINE, AQUEOUS SOLUTION, 8 (6.1), II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 2030 HYDRAZINE, AQUEOUS SOLUTION, 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 8 (6.1)
Danger labels (ADR)	: 8, 6.1
IMDG	
Transport hazard class(es) (IMDG)	: 8 (6.1)
Danger labels (IMDG)	: 8, 6.1
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 8 (6.1)
Hazard labels (IATA)	: 8, 6.1
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ADN Transport hazard class(es) (ADN)	: Not regulated		
RID Transport hazard class(es) (RID)	: Not regulated		
14.4. Packing group			
Packing group (ADR)	: 11		
Packing group (IMDG)	: 11		
Packing group (IATA)	: 11		
Packing group (ADN)	: Not regulated		
Packing group (RID)	: Not regulated		
14.5. Environmental hazards			
Dangerous for the environment	: Yes		
Marine pollutant	: Yes		
Other information	: No supplementary information available		

14.6. Special precautions for user

:	CT1
:	530
:	1L
:	E0
:	P001, IBC02
:	MP15
:	Т7
:	TP2
:	L4BN
:	AT
:	2
:	CV13, CV28
:	86
:	86
	2030
:	E
:	•2X
:	В
:	1 L
:	E0
:	P001
:	IBC02
	Version: 1

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Tank instructions (IMDG)	:	Т7
Tank special provisions (IMDG)	:	TP2, TP13
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-B
Stowage category (IMDG)	:	D
Stowage and handling (IMDG)	:	SW2
Segregation (IMDG)	:	SG35
MFAG-No	:	153
- Air transport		
PCA Excepted quantities (IATA)	:	E0
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)	:	855
CAO max net quantity (IATA)	:	30L
Special provision (IATA)	:	A1, A36
ERG code (IATA)	:	8P

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

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 Hydrazine is on the REACH Candidate List HYDRAZINE HYDRATE FOR SYNTHESIS is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference	:	Water hazard class (WGK) 3, strongly hazardous to water (KBwS-Beschluss; WGK No 130)
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 III-1
Store unit	: 50 liter
www.spanlab.in	Version: 1

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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-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
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 1A	Carcinogenicity, Category 1A
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Sensitisation — Skin, category 1
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H350	May cause cancer
H410	Very toxic to aquatic life with long lasting effects
R10	Flammable
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R34	Causes burns
R43	May cause sensitisation by skin contact
R45	May cause cancer
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
С	Corrosive
N	Dangerous for the environment
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