CAS No: 10217-54-2 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

	on of the substance/mixture and of the company/undertaking
1.1. Product identif	er
Product form	: Substance
	:
CAS No	: 10217-54-2
Product code	: 4080D
Formula	: N2H5OH
1.2. Relevant identi	fied uses of the substance or mixture and uses advised against
1.2.1. Relevant identi	fied uses
Use of the substance/mix	ture : Industrial. For professional use only.
1.2.2. Uses advised a	gainst
No additional information	available
1.3. Details of the s	upplier of the safety data sheet
Labogens Fine Chem Ind 1st Floor , Above Bank of Ludhiana Pb. (141007) +91 9316777775, +91 77 sales@labogens.com	[:] India, Guru Vihar , Rahon Road, 07855700
1.4. Emergency tele	phone number
Emergency number	: +91 7707855700 (9:00am - 6:00 pm)
SECTION 2: Hazards ide	entification
2.1. Classification of	f the substance or mixture
Classification according	g to Regulation (EC) No. 1272/2008 [CLP]
Acute toxicity (oral), Category 3	H301
Acute toxicity (dermal), Category 3	H311
Acute toxicity	H331

Acute toxicityH331(inhalation:vapour)Category 3Skin corrosion/irritation,Category 1Sensitisation — Skin,Carcinogenicity, Category1AHazardous to the aquaticHazard, Category 1

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

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements		
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]	
Hazard pictograms (CLP)		
	GHS05 GHS06 GHS08 GHS09	
Signal word (CLP)	: Danger	
Hazard statements (CLP)	 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 (if inhaled) 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 eye protection, face protection, protective clothing, protective gloves 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 P261 - Avoid breathing fume, gas, vapours 	

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients			
3.1. Substance			
Name CAS No	: Hydrazine hydrate 60% : 10217-54-2		
Name	Product identifier	%	
HYDRAZINE HYDRATE 80% substance listed as REACH Candidate (Hydrazine)	(CAS No) 7803-57-8	72 - 74	
Water	(CAS No) 7732-18-5 (EC no) 231-791-2	28 - 30	

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures				
4.1. Description of first aid measures				
	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.			
First-aid measures after skin contact :	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. 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 out with water. Get medical advice/attention if you feel unwell.			
4.2. Most important symptoms and eff	ects, both acute and delayed			
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 media	cal attention and special treatment needed			
No additional information available				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
	Water spray. Foam. Dry powder. Carbon dioxide.			
Unsuitable extinguishing media	Do not use a heavy water stream.			
	Bo not use a neavy water stream.			
5.2. Special hazards arising from the s	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				
6.1. Personal precautions. protective	equipment and emergency procedures			
	equipment and emergency procedures			
6.1.1. For non-emergency personnel				
Emergency procedures :	Evacuate unnecessary personnel. Do not breathe gas.			
6.1.2. For emergency responders				
Protective equipment :	Use personal protective equipment as required.			
Emergency procedures :	Ventilate area.			
6.2. Environmental precautions				
Very toxic to aquatic life with long lasting effe	cts.			
6.3. Methods and material for contain	ment 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				
SECTION 7: Handling and storage				
7.1 Drocquitions for onfo handling				
7.1. Precautions for safe handling Precautions for safe handling :	Do not eat, drink or smoke when using this product. Do not handle until all safety			
· ····································	precautions have been read and understood.			
Hygiene measures :	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.			

7.2. Conditions for safe storage, incl	uding any incompatibilities	
Storage conditions	: Keep cool. Protect from sunlight.	
7.3. Specific end use(s)		
No additional information available		
SECTION 8: Exposure controls/personal	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 prope	erties	
9.1. Information on basic physical ar		
Physical state	: Liquid	
Appearance Colour	Clear, colorless liquid.No data available	
Odour	: No data available	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapour pressure	: No data available	
Vapour pressure at 50 °C	: 5 mm Hg at 25°C	
Relative vapour density at 20 °C	: > 1 vs air	
Relative density	: No data available	
Density	: 1.029 g/ml at 25°C	

Solubility	: No data available
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	: 99.99 vol %

9.2. Other information				
No additional information available				
SECTION 10: Stability and reactivity				
10.1. Reactivity				
No additional information available				
10.2. Chemical stability				
No additional information available				
10.3. Possibility of hazardous reactio	ns			
No additional information available				
10.4. Conditions to avoid				
Direct sunlight. Overheating. Extremely hig	h or low temperatures.			
10.5. Incompatible materials				
No additional information available				
10.6. Hazardous decomposition prod	ucts			
No additional information available				
SECTION 11: Toxicological information				
11.1. Information on toxicological effe				
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:vapour: Toxic 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	: May cause an allergic skin reaction.			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: May cause cancer (if inhaled).			
Reproductive toxicity	: Not classified			
Specific target organ toxicity (single	: Not classified			
exposure)	. Not diabaneu			

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Aspiration hazard

: Not classified

SECTI	ON 12: Ecological information		
12.1.	Toxicity		
No add	ditional 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

12.5. Results of PBT and vPvB assessment

Component	
HYDRAZINE HYDRATE 80% (7803-57-	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
8)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6.	Other adverse effects			
No add	No additional information available			
SECTIO	ON 13: Disposal considerations			
40.4				
13.1.	Waste treatment methods			
INO ADD	itional information available			
SECTIO	ON 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
	HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 8 (6.1)
Danger labels (ADR)	: 8, 6.1
	\therefore $\hat{\otimes}$ \wedge
IMDG	
Transport hazard class(es) (IMDG)	: 8 (6.1)
Danger labels (IMDG)	: 8, 6.1
	\therefore \land \land
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 8 (6.1)
Hazard labels (IATA)	: 8, 6.1
ADN	
Transport hazard class(es) (ADN)	: Not regulated
RID	
Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group (ADR)	: II
Packing group (IMDG)	: II
Packing group (IATA)	: II
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

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14.6. Special precautions for user

- Overland transport

- Overland transport	
Classification code (ADR)	: CT1
Special provision (ADR)	: 530
Limited quantities (ADR)	: 1L
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Hazard identification number (Kemler No.)	: 86
Orange plates	86
	2030
Tunnel restriction code (ADR)	: E
EAC code	: •2X
APP code	: B
- Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
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
- Air transport	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity	: Forbidden
(IATA)	
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

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- 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 hydrate 60% is not on the REACH Candidate List

Contains substance on the candidate list in concentration $\ge 0.1\%$ or with a lower specific limit: Hydrazine (CAS 7803-57-8) Hydrazine hydrate 60% is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BlmSchV

Denmark

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 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:vapour)	Acute toxicity (inhalation:vapour) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1

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Carc. 1A	Carcinogenicity, Category 1A
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1	Skin corrosion/irritation, Category 1
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
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

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