CAS No: 68-12-2 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1.	Product identifier		
Produc	ct form	: Substa	ance
		:	
EC ind	lex no	: 616-0	01-00-X
EC no		: 200-6	79-5
CAS N	lo	: 68-12-	-2
Produc	ct code	: 3399E	3
Formu	la	: C3H7	NO

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
Labogens Fine Chem Industries
1st Floor , Above Bank of India, Guru Vihar , Rahon Road,
Ludhiana Pb. (141007)
+91 9316777775, +91 7707855700
sales@labogens.com - www.Labogens.com

1.4. Emergency telephone number

Emergency number

: +91 7707855700 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Reproductive toxicity, H360D Category 1B Flammable liquids, H226 Category 3 Acute toxicity (dermal), H312 Category 4 Acute toxicity (inhal.), H332 Category 4 Serious eye damage/eye H319 irritation, Category 2

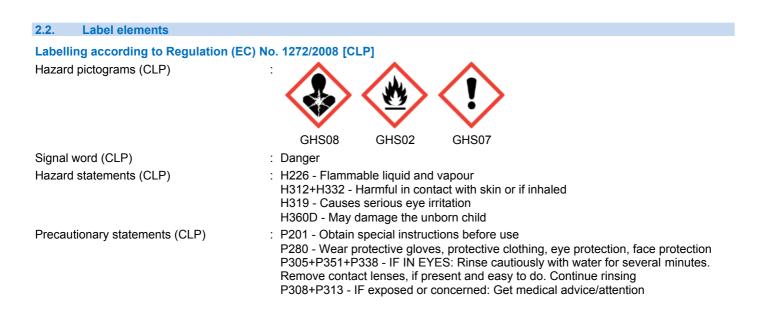
Full text of classification categories and H statements : see section 16

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

Repr.Cat.2; R61 Xn; R20 Xn; R21 Xi; R36 R10 Full text of R-phrases: see section 16

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



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	: N,N-DIMETHYL FORMAMIDE GC-HS	
CAS No	: 68-12-2	
EC no	: 200-679-5	
EC index no	: 616-001-00-X	

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

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Not appl	icable		
3.2.	Mixture		

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SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
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	: 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. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting.
4.2. Most important symptoms and e	ffects, both acute and delaved
Symptoms/injuries	: May damage the unborn child.
Symptoms/injuries after skin contact	 Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
4.2 Indication of any immediate med	ical attention and anapial treatment needed
4.3. Indication of any immediate med No additional information available	ical attention and special treatment needed
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measures	3
6.1. Personal precautions, protective	aguinment and emergency procedures
General measures	 equipment and emergency procedures Remove ignition sources. Use special care to avoid static electric charges. No naked
General Incasules	lights. No smoking.
6.1.1. For non-emergency personnel	
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.	
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.
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		
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.	
Precautions for safe handling	 Avoid contact with skin and eyes. Take precautionary measures against static discharge. Use only non-sparking tools. Obtain special instructions before use. Keep away from sources of ignition - No smoking. Do not breathe vapours. 	
Hygiene measures	: 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.	
7.2. Conditions for safe storage, inc	cluding any incompatibilities	
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/ equipment. 	
Storage conditions	: Keep container tightly closed. Keep in fireproof place.	
Incompatible materials	: Heat sources.	
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 prop	perties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Colour	: Clear Colorless.
Odour	: fishy pungent & amine like.
Odour threshold	: No data available
рН	: No data available
pH solution	: 6.7
Relative evaporation rate (butylacetate=1)	: 0.17
Melting point	: -61 °C
Freezing point	: No data available
Boiling point	: 153 °C

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Flash point	: 58 °C	
Auto-ignition temperature	: 445 °C	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Flammable Flammable liquid and vapour	
Vapour pressure	: 2.7 at 20°C	
Relative vapour density at 20 °C	: 2.52	
Relative density	: No data available	
Density Solubility	: 0.949 g/cm³ : No data available	
Log Pow	: 1.01	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: 0.022 - 0.152 vol %	
9.2.Other informationNo additional information availableSECTION 10: Stability and reactivity		
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reac No additional information available	tions	
10.4. Conditions to avoid		
Open flame. Heat. Sparks.		
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition products		
May release flammable gases.		
SECTION 11: Toxicological information	on	

11.1. Information on toxicological effe	ects		
Acute toxicity	: Dermal: Harmful in contact with skin. Inha	lation: Harmful if inhaled.	
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Causes serious eye irritation.		
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Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: May damage the unborn child.
	: Not classified
Specific target organ toxicity (single exposure)	. Not classified
Specific target organ toxicity (repeated	: Not classified
exposure)	
Aspiration hazard	: Not classified
Potential adverse human health effects	: Harmful in contact with skin.
and symptoms	
SECTION 12: Ecological information	
12.1. Toxicity	

No additional information available

12.2. Persistence and degradability

No additional information available

12.3.	12.3. Bioaccumulative potential	
N,N-DIMETHYL FORMAMIDE GC-HS (68-12-2)		
Log F	Pow	1.01

12.4. Mobility in soil

No additional information available

12.5.	Results of PBT and vPvB assessment
N,N-C	DIMETHYL FORMAMIDE GC-HS (68-12-2)
This s	ubstance/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	

12.6. Other adverse effects	
No additional information available	
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.

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SECTION 14: Transport information

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

14.1. UN number	
UN-No. (ADR)	: 2265
UN-No. (IMDG)	: 2265
UN-No.(IATA)	: 2265
UN-No.(ADN)	: Not regulated
UN-No. (RID)	: Not regulated
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: N,N-DIMETHYLFORMAMIDE
Proper Shipping Name (IMDG)	: N,N-DIMETHYLFORMAMIDE
Proper Shipping Name (IATA)	: N,N-DIMETHYLFORMAMIDE
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated
Transport document description (ADR)	: UN 2265 N,N-DIMETHYLFORMAMIDE, 3, III, (D/E)
Transport document description (IMDG)	: UN 2265 N,N-DIMETHYLFORMAMIDE, 3, III (58°C c.c.)
Transport document description (IATA)	: UN 2265 N,N-DIMETHYLFORMAMIDE, 3, III
14.3. Transport hazard class(es)	
Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3
	3
	V
MD0	
IMDG	. 2
Transport hazard class(es) (IMDG)	: 3
Danger labels (IMDG)	: 3
	3
	•
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 3
Hazard labels (IATA)	: 3
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	· •
	3
	*
ADN	
Transport hazard class(es) (ADN)	: Not regulated
• • • • • • • • • • • •	
RID	

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Transport hazard class(es) (RID)	: Not regulated
14.4. Packing group	
Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: 111
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated
14.5. Environmental hazards	
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)	:	F1
Limited quantities (ADR)	:	5L
Excepted quantities (ADR)	:	E1
Packing instructions (ADR)	:	P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	:	MP19
Portable tank and bulk container instructions (ADR)	:	T2
Portable tank and bulk container special provisions (ADR)	:	TP2
Tank code (ADR)	:	LGBF
Vehicle for tank carriage	:	FL
Transport category (ADR)	:	3
Special provisions for carriage - Packages (ADR)	:	V12
Special provisions for carriage - Operation (ADR)	:	S2
Hazard identification number (Kemler No.)	:	30
Orange plates	:	30
		2265
Tunnel restriction code (ADR)	:	D/E
EAC code	:	•2Y
- Transport by sea		
Limited quantities (IMDG)	:	5 L
Excepted quantities (IMDG)	:	E1
Packing instructions (IMDG)	:	P001, LP01
IBC packing instructions (IMDG)	:	IBC03
Tank instructions (IMDG)	:	T2
Tank special provisions (IMDG)	:	TP2
EmS-No. (Fire)	:	F-E
EmS-No. (Spillage)	:	S-D
Stowage category (IMDG)	:	A

MFAG-No

Flash point (IMDG)

: 58°C c.c.

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- Air transport		
PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y344
PCA limited quantity max net quantity (IATA)	:	10L
PCA packing instructions (IATA)	:	355
PCA max net quantity (IATA)	:	60L
CAO packing instructions (IATA)	:	366
CAO max net quantity (IATA)	:	220L
ERG code (IATA)	:	3L
- 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

N,N-dimethylformamide is on the REACH Candidate List

N,N-DIMETHYL FORMAMIDE GC-HS is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference	: Water hazard class (WGK) 2, hazardous to water (KBwS-Beschluss; WGK No 83)
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
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

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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
H226	Flammable liquid and vapour
H312	Harmful in contact with skin
H319	Causes serious eye irritation
H332	Harmful if inhaled
H360D	May damage the unborn child
R10	Flammable
R20	Harmful by inhalation
R21	Harmful in contact with skin
R36	Irritating to eyes
R61	May cause harm to the unborn child
Xi	Irritant
Xn	Harmful

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