

MATERIAL SAFETY DATA SHEET (MSDS) DIMETHYLFORMAMIDE LR (FORMDIMETHYLAMIDE)

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier				
Trade name	: DIMETHYLFORMAMIDE LR (FORMDIMETHYLAMIDE)			
Product code	: SS0111002500			
Identification of the product	: N,N Dimethylformamide CAS No :68-12-2 EC No :200-679-5 Annex No :616-001-00-X			
Chemical formula	: C3H7NO			
1.2. Relevant identified uses of the substance or mixture and uses advised against				
Use	: Industrial. For professional use only.			
1.3. Details of the supplier of the safety data sheet				
Company identification	SUVCHEM Chaitanya Tower, 2nd Floor, Office # 206, Siddharth Nagar, S.V. Road, Goregaon (West), Mumbai - 400062, Maharashtra, India. Contact: +91 22 28725393 / 94 / 95 Email ID: info@suvchem.com/care@suvchem.com			
1.4. Emergency telephone number				
Phone no.	:+ 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]			

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification

: Repr. Cat. 2; R61 Xn; R20/21 Xi; R36

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards: Reproductive toxicity - Unborn Child - Category 1B - Danger (CLP : Repr. 1B)
H360
Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332
Acute toxicity, dermal - Category 4 - Warning (CLP : Acute Tox. 4) H312
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

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2. Hazards identification -DSD (continued)

Labelling EC 67/548 or EC 1999/45

2.2. Label elements

Symbol(s)	
Symbol(s)	: T : Toxic
R Phrase(s)	: R61 : May cause harm to the unborn child. R20/21 : Harmful by inhalation and in contact with skin. R36 : Irritating to eyes.
S Phrase(s)	 S53 : Avoid exposure - obtain special instructions before use. S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
Contains	: N,N Dimethylformamide
Labelling Regulation EC 1272/2008 (C	<u>CLP)</u>
Hazard pictograms	
Signal words	: Danger
Hazard statements	: H360D: May damage the unborn child. H312 : Harmful in contact with skin. H319 : Causes serious eye irritation. H332 : Harmful if inhaled.
Precautionary statements	
General	: P201: Obtain special instructions before use.
Prevention	 P280: Wear protective gloves, protective clothing, eye protection, face protection. P271: Use only outdoors or in a well-ventilated area. P261: Avoid breathing dust, fume, gas, mist, vapours, spray. P264: Wash thoroughly after handling.
• Response	 P302+P352: IF ON SKIN : Wash with plenty of soap and water. P308+P313: If exposed or concerned : get medical advice. P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing. P363: Wash contaminated clothing before reuse. P337+P313: If eye irritation persists: Get medical advice/attention.
Storage	: P405: Store locked up.



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2. Hazards identification -DSD (continued)				
 Disposal considerations 	: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.			
Special labelling	: Restricted to professional users. (Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008)			
Contains	: N,N Dimethylformamide			
2.3. Other hazards				
Other hazards	: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.			

3. Composition/information on ingredients							
Substance / Preparatio	n	: N,N Dimethylformamide CAS No :68-12-2 EC No :200-679-5 Annex No :616-001-00-X Substance.					
Substance name N,N Dimethylformamide	:	Contents 100 %	CAS No 68-12-2	EC No 200-679-5	Annex No 616-001-00-X	REACH Ref.	Classification Repr. Cat. 2; R61 Xn; R20/21 Xi; R36
							Repr 1B H360D

Repr. 1B _ H360D Acute Tox. 4 (skin) _ H312 Acute Tox. 4 (inhal) _ H332 Eye irrit 2 _ H319

Contains no other components or impurities which will influence the classification of the product.

4.	First	aid	measures
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4.1. Description of first aid measures

Inhalation	: Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.			
Skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). Wash with plenty of soap and water. Wash contaminated clothing before reuse.			
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice. If eye irritation persists :			
Ingestion	: Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth.			
4.2. Most important symptoms and effects, both acute and delayed				
Symptoms relating to use	: May damage the unborn child. Repeated exposure to this material can result in absorption through skin causing			

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4. First aid measures (continued)				
	significant health hazard. Danger of serious damage to health by prolonged exposure through inhalation. Causes serious eye irritation.			
4.3. Indication of any immediate medical attention and special treatment needed				
General information : Never give anything by mouth to an unconscious person. If exposed or con get medical advice.				
5. Fire-fighting measures				
5.1. Extinguishing media				
Suitable extinguishing media Unsuitable extinguishing media Surrounding fires	: Foam. Dry powder. Carbon dioxide. Water spray. Sand. : Do not use a heavy water stream. : Use water spray or fog for cooling exposed containers.			
5.2. Special hazards arising from the substance or mixture				
Hazardous combustion products	: Under fire conditions, hazardous fumes will be present.			
5.3. Advice for fire-fighters				
Protection against fire	: Do not enter fire area without proper protective equipment, including respiratory protection.			
Special procedures	: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.			

6. Accidental release measures				
6.1. Personal precautions, protective equipment and emergency procedures				
For emergency responders	: Equip cleanup crew with proper protection. Ventilate area.			
For non-emergency personnel	: Evacuate unnecessary personnel.			
6.2. Environmental precautions				
Environmental precautions	: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.			

6.3. Methods and material for containment and cleaning up



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6. Accidental release measures (co	ontinued)
Clean up methods	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4. Reference to other sections	
See section 8. Exposure controls/per	sonal protection
7. Handling and storage	
7.1. Precautions for safe handling	
Handling	: Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Avoid breathing dust, fume, gas, mist, vapours, spray. Obtain special instructions before use.
Technical protective measures	: Provide good ventilation in process area to prevent formation of vapour.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Storage	: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight.
<u>7.3. Specific end use(s)</u>	
Specific end use(s)	: None.
8. Exposure controls/personal pro	tection
8.1. Exposure controls	

Personal protection	: Avoid all unnecessary exposure.		
 Respiratory protection 	: In case of insufficient ventilation, wear suitable respiratory equipment.		
 Hand protection 	: Wear protective gloves.		
 Eye protection 	: Chemical goggles or safety glasses.		
Others	: When using, do not eat, drink or smoke.		
8.2. Control parameters			
Occupational Exposure Limits	: No data available.		



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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Liquid.
Colour	: Clear Colorless
Odour	: Fishy pungent & amine like
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: -61 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 4450C
Flammability (solid, gas)	: Flammable.
Flash point [°C]	: 580C
Boiling point [°C]	: 153 °C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: 0,17
Vapour pressure [20°C]	: 2.7 @ 20C
Vapour pressure mm/Hg	: N/A
Vapour density	: 2,52
Density [g/cm3]	: 0,949
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Complete.
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: 6,7
Viscosity at 40°C [mm2/s]	: N/A
9.2. Other information	
<u>5.2. Other miormation</u>	
Explosive properties	: N/A
Explosion limits - upper [%]	: 15,20%
Explosion limits - lower [%]	: 2,20%
Oxidising properties	: No data available.

10. Stability and reactivity

10.1. Reactivity



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10. Stability and reactivity (continued)		
Reactivity	: Not established.	
10.2. Chemical stability		
Chemical stability	: Stable under recommended storage conditions.	
10.3. Possibility of hazardous reactions		
Hazardous reactions	: Not established.	
10.4. Conditions to avoid		
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.	
10.5. Incompatible materials		
Materials to avoid	: Strong acids. Strong bases.	
10.6. Hazardous decomposition products		
Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide.	

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	
Inhalation	: Harmful if inhaled.
• Dermal	: Harmful in contact with skin.
Ingestion	: Based on available data, the classification criteria are not met.
Corrosion	: Based on available data, the classification criteria are not met.
Irritation	: Causes serious eye irritation.
Sensitization	: Based on available data, the classification criteria are not met.
Mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Toxic for reproduction	: May damage the unborn child.
STOT-single exposure	: Based on available data, the classification criteria are not met.
STOT-repeated exposure	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.



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12. Ecological information	
<u>12.1. Toxicity</u>	
Toxicity information	: Not established.
<u> 12.2. Persistence - degradability</u>	
Persistence - degradability	: Biodegradable.
12.3. Bioaccumulative potential	
Bioaccumulative potential	: Not established.
<u>12.4. Mobility in soil</u>	
Mobility in soil	: Not established.
<u>12.5. Results of PBT and vPvB asse</u>	essment
Results of PBT and vPvB assessme	ent : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.
12.6. Other adverse effects	
Environmental precautions	: Avoid release to the environment.
13. Disposal considerations	
13.1. Waste treatment methods	
General	 Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
14. Transport information	
<u>14.1. Land transport (ADR-RID)</u>	
Proper shipping name UN N°	: N,N-DIMETHYLFORMAMIDE : 2265

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: 3

H.I. nr

ADR - Class

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14. Transport information (continued) Labelling - Transport : 3 : Flammable liquid. **ADR - Classification code** : F1

- ADR Group
- **ADR Packing instructions**
- **ADR Limited Quantity**
- ADR Tunnel code

- F1 : 111
- : P001 R001 LP001

:5L

: D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.



14.2. Sea transport (IMDG) [English only]

Proper shipping name	: N,N-DIMETHYLFORMAMIDE
UN N°	: 2265
IMO-IMDG - Class or division	: 3 : Flammable liquid.
IMO-IMDG - Packing group	: 111
IMO- IMDG - Packing instructions	: P001 LP01
IMO-IMDG - Limited quantities	: 5 L
IMO-IMDG - Marine pollution	: No
EMS-Nr	: F-E S-D

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name	: N,N-DIMETHYLFORMAMIDE
UN N°	: 2265
IATA - Class or division	: 3 : Flammable liquid.
IATA - Packing group	: 111
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 355
- Passenger and Cargo - Maximum Quantity/Packing	: 60 L
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 366



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- Cargo only - Maximum Quantity/ : 220 L		
Packing	. 220 L	
IATA - Limited Quantites	: 10 L	
ERG-Nr	: 3L	
5. Regulatory information		
15.1. Safety, nealth and environment	tal regulations/legislation specific for the substance or mixture	
Safety, health and environmental	: Ensure all national/local regulations are observed.	
regulations/legislation specific for the	ne	
substance or mixture		
REACH Restrictions - Annex XVII	: With the exception of those listed below: The components of this product are not subject to restrictions.	
	Annex XVII	
REACH Authorisation - Annex XIV	: The components of this product are not subject to authorization.	
15.2. Chemical Safety Assessment		
Chemical Safety Assessment	: It has not been carried out.	
6. Other information		
Revision	: Revision - See : *	
Abbreviations and acronyms	: PBT: persistent, bioaccumulative and toxic.	
• • • · · ·	vPvB: very persistent and very bioaccumulative	
Sources of key data used	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND C THE COUNCIL of 16 December 2008 on classification, labelling and packaging	
	substances and mixtures, amending and repealing Directives 67/548/EEC and	
	1999/45/EC, and amending Regulation (EC) No 1907/2006	
List of relevant R phrases (heading	3) : R20/21 : Harmful by inhalation and in contact with skin.	
	R36 : Irritating to eyes.	
	R61 : May cause harm to the unborn child.	
List of full text of H-statements in	: H312 : Harmful in contact with skin.	

Further information

section 3

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H319 : Causes serious eye irritation.

H360U : May damage the unborn child.

H332 : Harmful if inhaled.

: None.



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In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008

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- SUVCHEM provides the information contained herein in good faith but makes no representation as to its
 comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of
 the material by a properly trained person using this product.

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