

MATERIAL SAFETY DATA SHEET (MSDS)

DIMETHYLFORMAMIDE HPLC (FORMDIMETHYLAMIDE)

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

1.1. Product identifier

Trade name : DIMETHYLFORMAMIDE HPLC (FORMDIMETHYLAMIDE)

Product code : SS0111202500

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

SUVCHEM

Company identification 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

Eve irritation - Category 2A - Warning (CLP: Eve Irrit. 2) H319

Acute toxicity, dermal - Category 4 - Warning (CLP : Acute Tox. 4) H312 Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332



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2. Hazards identification -DSD (continued)

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s)

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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 (CLP)

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 / Preparation : N,N Dimethylformamide

CAS No :68-12-2 EC No :200-679-5 Annex No :616-001-00-X

Substance.

Substance name Contents CAS No EC No Annex No REACH Ref. Classification

N,N Dimethylformamide : 100 % 68-12-2 200-679-5 616-001-00-X ---- Repr. Cat. 2; R61 Xi; R20/21 Xi; R20/21 Xi; R29/26

Repr. 1B _ H360D Acute Tox. 4 (skin) _ H312 Acute Tox. 4 (inhal) _ H332

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

4. First aid measures

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. Wash contaminated clothing before reuse. Wash with plenty of soap and water. Specific treatment (see on this label).

Immediately call a POISON CENTER or doctor.

Eye contact : Get medical advice. If eye irritation persists : Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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. Causes serious eye irritation.

Danger of serious damage to health by prolonged exposure through inhalation.

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 concerned:

get medical advice.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media

: Do not use a heavy water stream.

Surrounding fires

: 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 (continued)

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/personal protection

7. Handling and storage

7.1. Precautions for safe handling

Handling : Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas,

mist, vapours, spray.

Wash thoroughly after handling. Obtain special instructions before use. Provide good ventilation in process area to prevent formation of vapour.

Technical protective measures

7.2. Conditions for safe storage, including 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.

7.3. Specific end use(s)

Specific end use(s) : None.

8. Exposure controls/personal protection

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 protectionOthersChemical goggles or safety glasses.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 : N/A Decomposition point [°C] Critical temperature [°C] : N/A : 4450C Auto-ignition temperature [°C] : Flammable. Flammability (solid, gas) : 580C Flash point [°C] : 153 °C Boiling point [°C] : N/A Initial boiling point [°C] : N/A Final boiling point [°C] : 0.17 **Evaporation rate**

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

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

12.1. Toxicity

Toxicity information : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: 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

14.1. Land transport (ADR-RID)

Proper shipping name : N,N-DIMETHYLFORMAMIDE

UN N° : 2265 H.I. nr : 30 ADR - Class : 3



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14. Transport information (continued)

Labelling - Transport : 3 : Flammable liquid.



ADR - Classification code : F1
ADR - Group : III

ADR - Packing instructions : P001 R001 LP001

ADR - Limited Quantity : 5 L

ADR - Tunnel code : 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 : III

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 : |||

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing

instruction

- Passenger and Cargo - Maximum : 60 L

Quantity/Packing

- Cargo only - Packing instruction : 366
- Cargo only - Maximum Quantity/ : 220 L

Packing



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14. Transport information (continued)

IATA - Limited Quantites : 10 L ERG-Nr : 3L

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental

regulations/legislation specific for the

: Ensure all national/local regulations are observed.

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.

16. Other information

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 OF

THE COUNCIL of 16 December 2008 on classification, labelling and packaging of 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

section 3

: H312 : Harmful in contact with skin. H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H360U: May damage the unborn child.

Further information : 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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