

MATERIAL SAFETY DATA SHEET (MSDS)

FORMIC ACID 98% LR (FOR SYNTHESIS)

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

1.1. Product identifier

Trade name : FORMIC ACID 98% LR (FOR SYNTHESIS)

Product code : \$\$0117200500

CAS No: 64-18-6

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,

Ciddharth Namer C.V. Dood

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 : C; R35

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

Health hazards : Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s)

T#

Symbol(s) : C : Corrosive



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2. Hazards identification -DSD (continued)

R Phrase(s) : R35 : Causes severe burns.
S Phrase(s) : S24 : Avoid contact with skin.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S28: After contact with skin, wash immediately with

S35: This material and its container must be disposed of in a safe way. S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S45: In case of accident or if you feel unwell, seek medical advice immediately (

show the label when possible).

S59: Refer to manufacturer/supplier for information on recovery/recycling.

Contains : Formic acid

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms





Signal words : Danger

Hazard statements : H314 : Causes severe skin burns and eye damage.

Precautionary statements

Prevention : P280: Wear protective gloves, protective clothing, eye protection, face protection.

P260: Do not breathe dust, fume, gas, mist, vapours, spray.

P264: Wash thoroughly after handling.

• Response : P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

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

P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated

clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

• Storage : P405: Store locked up.

• **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.

Contains : Formic acid

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 : Preparation.



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3. Composition/information on ingredients (continued)

Hazardous component(s) : This product is hazardous.

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

 Formic acid
 : > 75 < 99 %</td>
 64-18-6
 200-579-1
 607-001-00-0
 --- C; R35

Skin Corr. 1A H314

4. First aid measures

4.1. Description of first aid measures

Inhalation : Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at

rest in a position comfortable for breathing.

Skin contact : Immediately call a POISON CENTER or doctor. Remove/Take off immediately all

contaminated clothing. Wash with plenty of soap and water.

Eye contact: Immediately call a POISON CENTER or doctor. Remove contact lenses, if present

and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

Ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or

doctor

4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Causes severe skin burns and eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek

medical advice (show the label where possible).

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.

Thermal decomposition generates: Corrosive vapours.

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory

protection.



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5. Fire-fighting measures (continued)

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.

Technical measures : Use special care to avoid static electric charges.

Special precautions : Remove ignition sources. No naked lights. No smoking.

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

Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as

possible. Store away from other materials. Collect spillage.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

Handling : Handle empty containers with care because residual vapours are flammable. Wash

thoroughly after handling. Avoid contact during pregnancy or while nursing. Do not breathe dust, fume, gas, mist, vapours, spray. Take precautionary measures

against static discharge.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

Proper grounding procedures to avoid static electricity should be followed. Use only

non-sparking tools. Use explosion-proof electrical, ventilating, lighting, ...,

equipment.

Special precautions : No naked lights. No smoking.

7.2. Conditions for safe storage, including any incompatibilities



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7. Handling and storage (continued)

Storage : Keep only in the original container in a cool, well ventilated place. Keep in fireproof

place. Keep container tightly closed. Ground/bond container and receiving

equipment.

Storage regulation : Comply with applicable regulations.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

Specific end use(s) : None.

8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection











Personal protection : Avoid all unnecessary exposure.

Respiratory protectionHand protectionWear approved mask.Wear protective gloves.

Skin protection
 Eye protection
 Wear suitable protective clothing.
 Chemical goggles or face shield.

• Others : When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Liquid.

Colour : Colorless
Odour : Characteristic.
Odour threshold : No data available.

Physical state at 20 °C : Liquid.

Colorless
: Characteristic.

No data available.

Melting point [°C] : 8.2 - 8.4 °C

Decomposition point [°C] : N/A

Critical temperature [°C] : No data available.



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9. Physical and chemical properties (continued)

Auto-ignition temperature [°C] : No data available.

Flammability (solid, gas) : N/A

Flammable liquid and vapour.

Flash point [°C] : No data available.

Boiling point [°C] : 100 - 101 °C

Initial boiling point [°C] : No data available.

Final boiling point [°C] : No data available.

Evaporation rate : N/A

Vapour pressure [20°C] : No data available.

Vapour pressure mm/Hg : N/A
Vapour density : 1,59
Density [g/cm3] : 1,22
Relative density, gas (air=1) : N/A
Relative density, liquid (water=1) : N/A

Solubility in water [% weight] : Infinitely soluble
Solubility in water : No data available.
Log Pow octanol / water at 20°C : No data available.

Solubility : 2.2

Viscosity at 40°C [mm2/s] : No data available.

9.2. Other information

Explosive properties : N/A

Explosion limits - upper [%] : No data available.

Explosion limits - lower [%] : No data available.

Oxidising properties : No data available.

10. Stability and reactivity

10.1. Reactivity

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



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10. Stability and reactivity (continued)

Conditions to avoid : Direct sunlight. Extremely high or low temperatures. Open flame. Overheating.

Heat. Sparks.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

Thermal decomposition generates: Corrosive vapours.

May release flammable gases.

11. Toxicological information

11.1. Information on toxicological effects

Toxicity information: The product has been not fully tested. The calculated risk has been done under the

requirements of the EU regulations.

Acute toxicity

Inhalation
 Based on available data, the classification criteria are not met.
 Dermal
 Based on available data, the classification criteria are not met.

• Ingestion : Based on available data, the classification criteria are not met.

Corrosion : Causes severe skin burns and eye damage.

: Based on available data, the classification criteria are not met. Irritation : Based on available data, the classification criteria are not met. Sensitization Mutagenicity : Based on available data, the classification criteria are not met. : Based on available data, the classification criteria are not met. Carcinogenicity : Based on available data, the classification criteria are not met. **Toxic for reproduction** : Based on available data, the classification criteria are not met. STOT-single exposure STOT-repeated exposure : Based on available data, the classification criteria are not met. : Based on available data, the classification criteria are not met. **Aspiration hazard**

12. Ecological information

12.1. Toxicity

Toxicity information : The product has been not fully tested. The calculated risk has been done under the

requirements of the EU regulations.

12.2. Persistence - degradability



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12. Ecological information (continued)

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.

Special precautions : Handle empty containers with care because residual vapours are flammable.

14. Transport information

14.1. Land transport (ADR-RID)

Proper shipping name : FORMIC ACID with more than 85% acid by mass

UN N° : 1779 H.I. nr : 83 ADR - Class : 8

Labelling - Transport : 8 : Corrosive substance. 3 : Flammable liquid.







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14. Transport information (continued)

ADR - Classification code : CF1

CF1

ADR - Group : ||
ADR - Packing instructions : P001
ADR - Limited Quantity : 1 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 : FORMIC ACID with more than 85% acid by mass

UN N° : 1779

IMO-IMDG - Class or division : 8 : Corrosive substance. (3 : Flammable liquid.)

IMO-IMDG - Packing group : II

IMO- IMDG - Packing instructions : P001

IMO-IMDG - Limited quantities : 1 L

IMO-IMDG - Marine pollution : No

EMS-Nr : F-E S-C

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

Proper shipping name : FORMIC ACID with more than 85% acid by mass

UN N° : 1779

IATA - Class or division : 8 : Corrosive substance. (3 : Flammable liquid.)

IATA - Packing group : ||

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing : 851

instruction

- Passenger and Cargo - Maximum : 1 L

Quantity/Packing

- Cargo only - Packing instruction : 855 - Cargo only - Maximum Quantity/ : 30 L

Packing

IATA - Limited Quantites : 0.5 L ERG-Nr : 8F



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

DISCLAIMER:

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