SAFETY DATA SHEET FORMIC ACID 85%



1.1 Product identifier

Product: FORMIC ACID 85%
Chemical identification: Formic acid
CAS: 64-18-6
EC Number: 200-579-1
Registration number (REACH): --/--

Index No. : 607-001-00-0

1.2 Relevant identified uses of the substance or mixture

Industrial uses. Formulation [mixing] of preparations.
Uses advised against: Other uses than those recommended.
{?/TIPOREG}
{?/EEXP}

1.3 Details of the supplier of the safety data sheet

Kakadiya Chemicals

Plot No 2807.Opp Atul Ltd, GIDC, Ankleshwar(Guj)-393002,India

Phone Number: +919033552220.

1.4 Emergency telephone number

Tel. +91 9033552220

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008

Flammable liquids, Hazard Category 3; H226 Acute toxicity (inhal.), Hazard Category 3; H331 Acute toxicity (oral), Hazard Category 4; H302 Skin corrosion/irritation, Hazard Category 1A; H314 Serious eye damage/eye irritation, Hazard Category 1; H318.

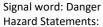
2.2 Label elements

Index No.: 607-001-00-0 ACIDO FORMICO 85% 1









H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H331: Toxic if inhaled.

Precautionary Statements:

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

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P310: Immediately call a POISON CENTER/doctor.

EUH071: Corrosive to the respiratory tract.



2.3 Other hazards

Results of PBT and vPvB assessment

The product does not contain substances identified as PBT and/or vPvB in a concentration equal to or greater than 0,1 % (w/w).

Environmental endocrine disrupting properties.

The product does not contain substances identified as having environmental endocrine disrupting properties in a concentration equal to or greater than 0,1 % (w/w).

Human health endocrine disrupting properties.

The product does not contain substances identified as having human health endocrine disrupting properties in a concentration equal to or greater than 0,1 % (w/w).

SECTION 3: Composition/information on ingredients

3.1 Substances

Concentration range of the constituent (% weight/weight)	EC number / Registration number	CAS	Chemical name
≥50% and ≤100	200-579-1 01-2119491174-37	64-18-6	Formic acid [1],[2]

^[1] Substance classified with a health or environmental hazard

SECTION 4: First aid measures

4.1 Description of first aid measures

Consumption: If swallowed, rinse mouth with water.

Seek medical advice immediately and show this container or label.

Keep the person at rest. Do NOT induce vomiting.

Eye contact: Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water and

seek medical advice.

Inhalation: Remove person to fresh air and keep at rest.

Skin contact: Remove contaminated clothing. Wash skin with mild soap and water, rinse abundantly. If symptoms persist, obtain

medical attention.

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

This product can be irritating or corrosive to the respiratory tract, eyes and skin. It may cause permanent eye injury. Corrosive to mouth, throat and stomach.

Causes serious eye damage (irreversible effects on the eye). Read label before use. No additional information available.

4.3 Indication of any immediate medical attention and special treatment

needed Not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Recommended: Foam or dry powder. For safety reasons do not use full water jet.

5.2 Special hazards arising from the substance or mixture

Not applicable.

5.3 Advice for firefighters

Closed containers may build up pressure at elevated temperatures.

Avoid inhalation of fumes or vapours. Use appropriate respiratory protection.

Prevent run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

^[2] Substances for which Union workplace exposure limits have been assigned



6.1 Personal precautions, protective equipment and emergency procedures

Do NOT smoke and do NOT expose the product to an open flame or to any other potential source of ignition.

Wear appropriate gloves to prevent skin exposure.

Avoid contact with skin and inhalation of its vapours or smoke.

Maintain adequate ventilation in the working area after spilling.

6.2 Environmental precautions

Avoid contaminating the environment via the sewers or water sources.

6.3 Methods and material for containment and cleaning up

Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash).

Ventilate area and wash spill site after material pickup is complete.

Dispose of in accordance with current laws and regulations.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep away from food, drink and animal feedingstuffs. Do not smoke.

Avoid contact with skin and eyes.

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Keep the product in its original container well sealed,in a dry and ventilated area, away from potential sources of ignition and protected from light. Store in accordance with local/national regulations and follow the warnings on the label. Keep away from incompatible substances (see section 10).

7.3 Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits:

Spain					
Name of agent	Limit value - 8 hours	Limit value - Short term	Notation		
Formic acid	9 mg/m³		s, VLI		
	European Union				
Name of agent	Limit value - 8 hours	Limit value - Short term	Notation		
Formic acid	9 mg/m³		-		

8.2 Exposure controls

Personal protection equipment: Appropriate personal protective equipment shall be worn in accordance with Regulation (EU) 2016/425.

Engineering Controls-Ventilation: The areas where the product is handled and stored should be adequately ventilated.

Respiratory Protection: Use personal breathing apparatus whenever deemed necessary.

Skin Protection: Avoid contact with skin. Compatible chemical-resistant gloves are recommended.

Rinse and remove gloves immediately after use. Wash hands with soap and water thoroughly after

handling.

Eye/Face protection: Chemical safety goggles are recommended. Wash contaminated goggles before reuse.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: LIQUID
Colour: COLORLESS
Odour: ACIDIC, PUNGENT
Odour threshold: Not determined
pH value: Not determined



Evaporation rate:

Melting point:

Not determined

Not determined

Not determined

100 - 101 °C

Flash point:

48 °C

Auto-ignition temperature: Not determined Decomposition temperature: Not determined Vapour pressure: Not determined Vapour density: Not determined Density: 1.000 g/cm3 (20 °C) Water solubility: Not determined Partition coefficient: n-octanol/water: Not determined Viscosity: Not determined Kinematic viscosity: Not determined Oxidising properties: Not available. Explosive properties: Not available. Lower explosive limit: Not determined Upper explosive limit: Not determined

9.2 Other information

Additional information: Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity

Not available.

10.2 Chemical stability

Stable under normal operating conditions.

10.3 Possibility of hazardous reactions

Hazardous Polymerization: It does not undergo any dangerous reactions under normal conditions.

10.4 Conditions to avoid

Heat, flames and other sources of ignition.

Handle in accordance with good industrial hygiene and safety practice.

10.5 Incompatible materials

Oxidizing mineral acids, strong reducing agents, strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon monoxide and other unidentified organic compounds may be formed upon combustion.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity (LD50):

Acute dermal toxicity (LD50):

Acute Inhalation toxicity (LC50 Gas):

Acute Inhalation toxicity (LC50 Dusts and Mists):

Acute Inhalation toxicity (LC50 Vapours):

Not determined

Not determined

See also sections 2 and 3.

11.2 Information on other hazards:

Endocrine disrupting properties.:

The product does not contain substances identified as having human health endocrine disrupting properties in a concentration equal to or greater than 0,1 % (w/w).

SECTION 12: Ecological information

12.1 Toxicity

Acute aquatic toxicity: Non toxic



Chronic aquatic toxicity: Non toxic

See also sections 2 and 3.

12.2 Biodegradation:

82%, 28 days

12.3 Bioaccumulative potential:

Not determined

12.4 Mobility in soil:

Not available.

12.5 Results of PBT and vPvB assessment:

The product does not contain substances identified as PBT and/or vPvB in a concentration equal to or greater than 0,1 % (w/w).

12.6 Endocrine disrupting properties.:

The product does not contain substances identified as having environmental endocrine disrupting properties in a concentration equal to or greater than 0,1 % (w/w).

12.7 Other adverse effects:

Not available.

Do not allow the material to enter streams, sewers or other waterways.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Container disposal: Containers must be disposed of as hazardous waste. Do not reuse empty containers. Dilute the remaining

material and neutralise. Empty residue into a suitable disposal site.

Disposal conditions: Dispose of in accordance with all state and local environmental regulations. This material and its container

must be disposed of in a safe way.

SECTION 14: Transport information

International Carriage of Dangerous Goods by Road (ADR)

14.1 UN No.: UN1779

14.2 Proper Shipping Name: FORMIC ACID with more than 85% acid by mass

14.3 Class: 8 14.4 Packing Group: II

14.6 Special precautions for user:

Tunnel restriction code: (D/E)

Label:





8 (3

Sea Transport (IMDG)

14.1 UN No.: UN1779

14.2 Proper Shipping Name: Formic acid with more than 85% acid, by mass

14.3 Class:814.4 Packing Group:II14.5 Marine Pollutant:No

14.6 Special precautions for user:

IMDG-Code segregation group: 1 - Acids EmS: F-E,S-C

Label:





Air Transport (ICAO/IATA)



14.1 UN No.: UN1779
14.2 Proper Shipping Name: Formic acid

14.3 Class: 8 14.4 Packing Group: II

14.6 Special precautions for user:

Passenger aircraft: ACCEPTED
Cargo aircraft: ACCEPTED

SECTION 15: Regulatory information

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

Substances of very high concern:

Not available.

15.2 Chemical safety assessment

Not available.

SECTION 16: Other information

This material should only be used for industrial purposes.

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and our company assumes no liability resulting from the use of this SDS. This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment and must determine suitability of this information for his application.