MATERIAL SAFETY DATA SHEET
Formic Acid 85%

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

CAS-No.: 64-18-6

EU Index No.: 607-001-00-0

EC (EINECS) No.: 200-579-1

Product No.: 100104, 300189, 300196

Synonyms, Trade Names: Formic Acid 85%V Sol, Formic Acid 85% Sol

Application: Food / Feed additive

Supplier: Cosmo Chemistry India, Office No. 713, 7th Floor, Millennium Business Hub, Sarthana Jakatnaka, Varachha Main Road, Surat, Gujarat, India - 395006

Emergency Contact Number (Office Hours): +91-7984584838

Emergency Contact Number (Outside Office Hours): +91-7984584838

SECTION 2: HAZARDS IDENTIFICATION

Classification (67/548): C; R34

Classification (EC 1272/2008)

Physical and Chemical Hazards: Not classified.

Human health: Skin Corr. 1B - H314

Environment: Not classified.

Label in accordance with (EC) No. 1272/2008

Signal Word: Danger

Hazard Statements

H314: Causes severe skin burns and eye damage.

Precautionary Statements

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

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 or doctor/physician.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

EU Index No.	EC (EINECS) No.	CAS-No.
607-001-00-0	200-579-1	64-18-6

SECTION 4: FIRST-AID MEASURES

Inhalation: Move the exposed person to fresh air at once. Get medical attention.

Ingestion: Provide rest, warmth and fresh air. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Specific hazards: Oxides of Carbon.

Protective measures in fire: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of spray mist and contact with skin and eyes. Provide adequate ventilation.

Environmental precautions: Spillages or uncontrolled discharges into watercourses must be immediately alerted to the Environmental Agency or other appropriate regulatory body.

Spill clean up methods: Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

SECTION 7: HANDLING AND STORAGE

Usage precautions: Avoid spilling, skin and eye contact. Avoid inhalation of vapours and spray mists. Provide good ventilation.

Storage precautions: Keep containers tightly closed. Keep in original container.

Storage class: Corrosive storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory equipment: If ventilation is insufficient, suitable respiratory protection must be provided.

Hand protection: Butyl rubber gloves are recommended.

Eye protection: Wear approved safety goggles.

Other protection: Wear rubber apron. Wear rubber footwear.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Liquid
Colour	Colourless to pale yellow
Odour	Pungent
Solubility	Soluble in water
Boiling Point (°C)	107.3
Melting Point (°C)	-13
Relative Density	1.195 @ 20°C
Vapour Pressure	< 4.4 kPa @ 20°C
pH value, conc. solution	< 1
pH value, diluted solution	2.2 @ 1
Viscosity	1.4 mPas @ 20°C
Flash Point (°C)	65
Auto Ignition Temperature (°C)	500
Flammability Limit - Lower (%)	14.9
Flammability Limit - Upper (%)	47.6

Property	Value
Partition Coefficient (n-Octanol/Water)	-1.9

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal temperature conditions and recommended use.

Conditions to avoid: Avoid excessive heat for prolonged periods of time.

Materials to avoid: Strong alkalis. Amines.

Hazardous decomposition products: Oxides of Carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxic Dose 1 - LD50: 730 mg/kg (oral rat)

Toxic Conc. - LC50: 7.4 mg/l/4h (inhalation, rat)

Inhalation: Vapours irritate the respiratory system, and may cause coughing and difficulties in breathing.

Ingestion: Swallowing concentrated chemical may cause severe internal injury. Causes burns.

Skin contact: Causes burns.

Eye contact: Causes burns.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

LC50, 96 Hrs, Fish (mg/l)	46 - 100
EC50, 48 Hrs, Daphnia (mg/l)	32.19
IC50, 72 Hrs, Algae (mg/l)	26.9

Mobility: The product is soluble in water.

Bioaccumulation: The product does not contain any substances expected to be bioaccumulating.

Degradability: The product is biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS

General information: Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. Do not puncture or incinerate even when empty.

Disposal methods: Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

Proper Shipping Name	Formic Acid
UN No. (Road)	1779
ADR Class No.	8
ADR Class	Class 8: Corrosive substances
ADR Pack Group	II
Tunnel Restriction Code	(D/E)
Hazard No. (ADR)	83
ADR Label No.	8 & 3
Hazchem Code	2W

UN No. (Sea)	1779
IMDG Class	8
IMDG Pack Group	II
EmS	F-A, S-B
UN No. (Air)	1779
Air Class	8
Air Sub Class	-
Air Pack Group	II
UK Road Class	8

SECTION 15: REGULATORY INFORMATION

EU Directives

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I. 2009 No. 716).

Approved Code of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

SECTION 16: OTHER INFORMATION

NOTE: Lines within the margin indicate significant changes from the previous revision.

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