1. Identification

1110451 Product Code

FORMIC ACID 98% w/w A.R. Product Name

HCOOH = 46.03Molecular Formula

64-18-6 CAS Number

Supplier:



CAMLAB LIMITED

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> 24hr 112

> (Have this document to hand)

2. Composition

| Component | CAS No | EEC No | Conc w/w | Classification & Risk Phrases | Exp (See 8.1) |
|-------------|---------|-----------|----------|-------------------------------|---------------|
| Formic acid | 64-18-6 | 200-579-1 | > 98.0% | C : R35 | WEL |

3. Hazards Identification



Causes severe burns.

4. First Aid Measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open.

OBTAIN MEDICAL ATTENTION URGENTLY.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash

before re-use. OBTAIN MEDICAL ATTENTION URGENTLY.

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give

oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. If conscious place in a

sitting position. OBTAIN MEDICAL ATTENTION URGENTLY.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty

in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL

ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-

fighters should wear protective clothing and breathing apparatus. Vapour-air mixtures are

explosive.

Extinguishing Water spray, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep Media

fire exposed containers cool.

Unsuitable

Media

Do not use water jet.

6. Accidental Release Measures

Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective Personal Protection

equipment. Evacuate area immediately. Do not allow general use of area until it is safe to

do so.

Enviromental Keep material out of sewers, storm drains, surface waters and soil. Notify the

Environmental Agency and local Environmental Health Officer if major spillage occurs.

Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Major Spillage

Wash area down with copious amounts of water.

Contain and absorb on inert material. Neutralise spill with soda ash, lime, calcium Minor Spillage

carbonate or sodium bicarbonate. Wash to drain with copious amounts of water.

7. Storage & Handling

Handling Precautions Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate

clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended

limits.

Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of Storage Conditions

ignition. Keep containers closed when not in use.

8.1 Workplace Exposure Limits

| Co | mponent | CAS No | Workplace Exposure Limits | | | | | Maximum Exposure Limits | | | | |
|-----|-----------|---------|---------------------------|----|---------|-----------|--------|-------------------------|--------|-----|------|-----|
| | | | Long Term Short Term | | rt Term | Long Term | | Short Term | | | | |
| | | | ppm | mg | g m–3 | ppm | mg m-3 | ppm | mg m-3 | ppm | mg m | 1–3 |
| For | rmic acid | 64-18-6 | 5.000 | 0 | 9.600 | - | - | - | - | - | | - |

8.2 Personal Protection

Respiratory Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits.

If not, use a well maintained chemical cartridge organic vapour respirator, or use self

contained breathing apparatus.

Hands Use PVC gauntlets.

Use chemical full face shield. Eyes

Wear PVC oversuit. Skin

9. Physical & Chemical Properties

Appearance Clear colourless liquid.

Pungent and intensely irritating. Odour

рΗ Not available Boiling point 100.8 °C 8.4 °C Melting point

Flash point 69.0 °C(Closed cup)

57.0 % Upper Flammable Limit Lower Flammable Limit 18.0 % 540.0 °C Auto Ignition Explosive properties Slight. Oxidising Properties No.

Vapour Presure 40 mmHg @ 20 C

Relative Density 1.2201

Completely miscible in water. Water Solubility

10. Stability & Reactivity

Chemical Stability Stable under normal conditions

Conditions to Avoid Hot surfaces, naked flames or other sources of ignition.

Materials to Avoid Alkalis. Strong oxidising agents. Mineral acids.

10. Stability & Reactivity (continued)

None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide. Hazardous

Decomposition Products

11. Toxicological Information

The vapour is irritating to the eyes. The liquid and solutions will cause severe burns.

Damage can range from severe irritation and corneal scarring to permanent blindness.

Skin The liquid and solutions will cause severe burns. Repeated exposure may cause dermatitis.

LD50 Skin Not available

Ingest Causes severe corrosion of the mouth, throat and gastro-intestinal tract.

LD50 Ingest Oral Rat 1210 mg/Kg

Inhalation Exposure to vapour concentrations above the occupational exposure limits will produce

> severe irritation of the eyes, nose, throat and respiratory tract. High concentrations of vapour may seriously damage the membranes lining the nose, throat and upper respiratory

tract.

Not considered to be a carcinogen. Carcinogenicity

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Other Information The irritant effect provides warning that control of exposure is needed.

12. Ecological

Readily bio-degraded in the environment. Slightly toxic to aquatic species but is unlikely to bioaccumulate.

13. Disposal Considerations

Disposal Methods Dispose of in a licensed incinerator. Do not dispose of as domestic waste.

Contaminated Packaging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of

explosion.

14. Transport Information

Proper Shipping Name Formic Acid UN Number 1779

UN Classification Corrosive Flammable liquid Subsidiary Risk 3 Flash Point

80

69.0 °C(Closed cup)

Packing Group ΙI 2 Transport Category Marine pollutant No





15. Regulatory Information

Labelling Corrosive.

Classification

ADR Hazard ID

Label Symbols



15. Regulatory Information (continued)

Risk & safety Phrases

Causes severe burns. Keep locked up and out of reach of children. Do not breath vapour. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label)

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EEC Number 200-579-1

16. Other Information

Document Information

This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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