



Product Name: Formic acid CAS No.: 64-18-6 Version: 0

### 1. Identification

**Product Code** : 90289, 91508

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### 2. Hazards Identification

### Hazard classification

Flammable liquids : Category 3
Acute toxicity, Oral : Category 4
Acute toxicity, Inhalation : Category 3
Skin corrosion : Category 1A

Label elements Hazard symbol







Signal word : Danger

**Hazard statement** : Flammable liquid and vapour.

Harmful if swallowed.

Causes severe skin burns and eye damage.

Toxic if inhaled.

Precautionary statement : Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

Wear protective gloves/ protective clothing/ eye protection/

face protection.

IF ON SKIN (or hair): Take off immediately all contaminated

clothing.

Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTER or doctor/physician.

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

rinsing.

Store in a well-ventilated place. Keep container tightly closed.





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Supplemental Hazard

Statements

: None.

## 3. Composition/information on ingredients

Ingredient CAS No

Formic acid 64-18-6

#### 4. First Aid Measures

Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the doctor

in attendance.

Inhalation : If breathed in, move person into fresh air. If not breathing, give

artificial respiration. Consult a physician.

**Skin contact** : Take off contaminated clothing and shoes immediately. Wash

off with soap and plenty of water. Take victim immediately to

hospital. Consult a physician.

**Eye contact** : Rinse thoroughly with plenty of water for at least 15 minutes

and consult a physician.

**Swallowed** : Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Rinse mouth with water. Consult a

physician.

Most important symptoms and effects, both acute and delayed Indication of any immediate medical attention and special

treatment needed Treatment

: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

: No data available

## 5. Fire fighting measures

Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide. Carbon oxides

Special hazards arising from the

substance or mixture

Advice for fire fighters : Wear self contained breathing apparatus for fire fighting if

necessary



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**Further information** : Use water spray to cool unopened containers.

#### 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

: Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations.

Vapours can accumulate in low areas.

**Environmental precautions** 

: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations

Reference to other sections

: For disposal see section 13.

## 7. Handling and Storage

Precautions for safe handling

: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

Conditions for safe storage, including any incompatibilities

: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Vent periodically. Handle and open container with care. Hygroscopic. Refrigerate before opening. Flammable liquids

Specific end use(s)

: No data available





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## 8. Exposure Controls Personal Protection

Control parameters

Components with workplace control parameters

**Exposure controls** 

Appropriate engineering

controls

Personal protective equipment

Eye/face protection

Skin Protection Hand

protection

**Body Protection** 

Respiratory protection

: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). : Handle with gloves. Gloves must be inspected prior to use. Use

: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use

proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

: Complete suit protecting against chemicals, The type of protective

equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

: Respiratory protection is required.

# 9. Physical and Chemical Properties

**Appearance** : Clear colorless liquid Odor : No data available 2.2 g/l at 20 °C Hq Melting point/freezing point : 8,2 - 8,4 °C : 100 - 101 °C Initial boiling point and boiling

range

Flash Point : 49.5 °C

: 42.00 hPa at 20 °C Vapor pressure

169.99 hPa at 50 °C

: 1.59 - (Air = 1.0)Vapor density **Relative density** : 1.22 g/cm3 at 25 °C : Completely miscible Solubility in water : No data available Solubility (other)

: CH2O2 Formula : 46.03 g/mol Molecular Weight

# 10. Stability and Reactivity

Reactivity : No data available





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: Stable under recommended storage conditions. Che mical stability

Contains the following stabiliser(s): Water (5 %)

Possibility of hazardous

reactions

: No data available

**Conditions to avoid** 

: Heat, flames and sparks.

**Incompatible materials** 

Hazardous decomposition

products

: Strong oxidizing agents, Strong bases, Powdered metals

: No data available

## 11. Toxicological Information

### Information on toxicological effects

LD50 Oral - Rat - 730 mg/kg **Acute toxicity** 

(OECD Test Guideline 401)

LC50 Inhalation - Rat - 4 h - 7,4 mg/l

Skin - Rabbit Skin corrosion/irritation

Result: Severe skin irritation

(Draize Test) Eyes - Rabbit

Serious eye damage/eye

**irritation** 

Result: Severe eye irritation

Prolonged or repeated exposure may cause allergic reactions Respiratory or skin sensitization

in certain sensitive individuals.

No data available Germ cell mutagenicity

Carcinogenicity No data available

Reproductive toxicity No data available Specific target organ toxicity -No data available

single exposure

Specific target organ toxicity -

repeated exposure

No data available

Aspiration hazard No data available

## 12. Ecological Information

Toxicity to fish LC50 - Leuciscus idus (Golden orfe) - 46 -**Toxicity** 

100 mg/l - 96 h

Persistence and degradability Biodegradability Result: > 90 % - Readily biodegradable

(OECD Test Guideline 301C)

Bioaccumulation is unlikely. **Bioaccumulative potential** 

Mobility in soil No data available Other adverse effects Harmful to aquatic life.





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### 13. Disposal consideration

Disposal instructions

: Discharge, treatment, or disposal may be subject to national,

state, or local laws.

Contaminated packaging

: Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label

warnings even after container is emptied.

# 14. Transport Information

	UN No.	UN proper shipping name	Hazard	Packaging	Marine Pollutant
			Class(es)	group	
DOT	1779	FORMIC ACID	8(3)	II	No
IMDG	1779	FORMIC ACID	8(3)	II	No
IATA	1779	FORMIC ACID	8(3)	II	No

### 15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

### 16. Other Information

Issue Date :01/08/2014

Version : 0

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THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).