



M.M.C. International B.V.

MSDS – Material Safety Data Sheet

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

1.1 Product identifiers

Product name : Ephedrine HCl Test
Product number : EPH0110
Brand : MMC International

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : M.M.C. International B.V.
Frankenthalerstraat 16-18
4816KA Breda
The Netherlands
Telephone : +31 76-5711140
Fax : +31 76-5719300
E-mail address : Info@mmcinter.com

1.4 Emergency telephone number

Emergency Phone # : 112

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Skin corrosion (Category 1A), H314

Chronic aquatic toxicity (Category 3), H412

Oxidizing solids (Category 3), H272

Acute toxicity, Oral (Category 3), H301

Eye irritation (Category 2), H319

Acute aquatic toxicity (Category 1), H400

Classification according to EU Directives 67/548/EEC or 1999/45/EC

C Corrosive	R35
O Oxidising	R8
T Toxic	R25
N Dangerous for the environment	R50

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Hazard statement(s)

H272 May intensify fire; oxidiser.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.



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H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P220	Keep/Store away from clothing/ combustible materials.
P273	Avoid release to the environment.
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.
P301 + P310	Immediately call a POISON CENTER or doctor/ physician.

2.3 Other hazards - none

3. Composition/information on ingredients

3.1 Mixture:

Component	CAS-No.	Concentration
Filmerine	7632000	10-20%
Oil of vitriol	7664939	80-90%

4. First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2)

4.3 Indication of any immediate medical attention and special treatment needed

No data available



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5. Firefighting measures

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear vapor respirator, safety goggles, rubber gloves, and disposable coveralls (discard coveralls after use). 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.

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material (dry soda ash, calcium carbonate, earth, sand, or vermiculite recommended; do not use flammable substances such as sawdust). Scoop up with a non-sparking tool. Ventilate and wash spill site after collection. Place in container for disposal according to local regulations.

7. Handling and storage

7.1 Precautions to be Taken:

Keep in tightly closed container. Keep cool and dry. Prevent from freezing. Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials. Use only in well-ventilated areas. Do not ingest or inhale. Avoid contact with skin, eyes, and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

7.2 Other Precautions:

"Empty" containers may contain product residue and may be dangerous. Empty containers should be completely drained and bunged and then disposed of according to local, state, and federal regulations.

8. Exposure controls/personal protection

8.1 Ventilation Requirements:

Use only in well-ventilated areas.



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8.2 Personal Protective Equipment:

Safety goggles, gloves, vapor respirator, protective clothing.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Boiling Point: 290 °C*

Melting Point: 3 °C*

Evaporation Rate (Butyl Acetate = 1): NE

Vapor Pressure (mm Hg.): 1,33 hPa at 145,8 °C *

Specific Gravity (H₂O = 1): 1,84 g/cm³ at 25 °C *

Vapor Density (AIR = 1): 3,39 - (AIR = 1.0) *

Solubility In Water: Miscible*

Other Information: * Info for oil of vitriol.

Appearance and Odor: Transparent

10. Stability and reactivity

10.1 Stability:

Stable at room temperature in closed containers under normal storage and handling conditions .

10.2 Incompatibility (Materials to Avoid):

Bases, Halides, Organic materials, Carbides, fulminates, Nitrates, picrates, Cyanides, Chlorates, alkali halides, Zinc salts, permanganates, e.g. potassium permanganate, Hydrogen peroxide, Azides, Perchlorates., Nitromethane, phosphorous, Reacts violently with: cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorous(III) oxide, Powdered metals, Acids, Ammonia, Cyanides, Amines, Activated carbon

10.3 Decomposition/By Products:

Other decomposition products - no data available

10.4 Hazardous Polymerization:

Does not occur.

11. Toxicological information

11.1 Information on toxicological effects

Headache, Nausea, Incoordination., Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer.

Liver - Irregularities - Based on Human Evidence

12. Ecological information

12.1 Adverse effects

Prevent from entering sewers or waterways. May be toxic to some aquatic life.



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13. Disposal considerations

13.1 Information on disposal

Dispose according to local, state, and federal regulations.

14. Transport information

14.1 Information on transport

Keep in tightly closed container. Keep cool and dry. Prevent from freezing. Avoid all ignition sources (heat, open flame, spark). Avoid incompatible materials. Do not ingest or inhale. Avoid contact with skin, eyes, and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

15. Regulatory information

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

No data available

16. Other information

16.1 Risks

Using this product under normal, properly instructed procedures should not be hazardous.

16.2 Further Information

The information above is believed to be accurate and represents the best information currently available to us but does not purport to be all inclusive and shall be used only as a guide. We make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.