



M.M.C. International B.V.

SDS – Material Safety Data Sheet

According to 1907/2012/EG

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

1.1 Product identifiers

Product name : Pentazocine Test
 Product number : PENTA0110
 Product type : Ampoule
 Brand : MMC International

1.2 Relevant identified uses of the substance or mixture

Identified uses : Substance Testing

Restrictions on use: This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the supplier.

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 # : 112/911

2. Hazards identification

2.1 Classification of the substance or mixture

GHS Classification

Skin Corrosion/Irritation:	Category 1
Serious Eye Damage/Eye Irritation:	Category 1
Corrosive to Metals:	Category 1

GHS Label element

Hazard pictograms:





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Signal word: Danger

2.2 Label elements

Hazard statement(s)

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309 IF exposed or if you feel unwell:
P310 Immediately call a POISON CENTER or doctor/physician.

2.3 Other hazards

All chemicals are potentially dangerous. They should only be handled by specially trained personnel.

3. Composition/information on ingredients

3.1 Mixture:

Component	CAS-No.	EC-No.	Concentration
Sulfuric acid	7664-93-9	231-639-5	85-97%

4. First aid measures

4.1 Description of first aid measures

General advice

First Aider: Pay attention to self-protection!
Immediately remove any clothing soiled by the product.
General advice: No induce of vomiting by layman.

If inhaled

Supply fresh air or oxygen; call for doctor

In case of skin contact

Immediately rinse with water. Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

In case of eye contact

Rinse immediately for 15 minutes with plenty of water with the eyelid held wide open. Seek medical advice.



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If swallowed

Rinse out mouth and drink a glass of water. Do not induce vomiting. Risk of perforation! Call for a doctor immediately and show this MSDS.

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 further relevant information available.

5. Firefighting measures

5.1 Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

Sulphur oxides (SO_x)

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Wear fully protective suit.

5.4 Further information

Collect contaminated firefighting water separately. It must not enter the sewage system.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Wear protective clothing. Do not breathe vapour/spray. Avoid contact with the eyes and skin. Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter sewers/ground water or penetrate the soil.

6.3 Methods and materials for containment and cleaning up

Absorb with liquid-binding material. Dispose of the material collected according to regulations.

7. Handling and storage

7.1 Precautions to be Taken:

Keep containers, equipment and working place clean. Store at room temperature.

7.2 Other Precautions:

Store away from foodstuffs. Keep container tightly sealed.

8. Exposure controls/personal protection

8.1 Control parameters



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Occupational exposure limit values:

Ingredient name	Occupational exposure limits
Sulphuric Acid	Long-term value: 0.05 mg/m ³ (Mist) (WEL Great Britain)

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

Appearance: Ampoule (Liquid)

Odor: Odourless

Odor threshold: N/A

pH: <1

Melting point/Freezing point: -15°C

Initial boiling point/boiling range: 295-315°C

Flash point N/A

Evaporation rate: N/A

Flammability in air: N/A

Upper/lower flammability or explosive limits: N/A

Vapor pressure: <0.01 hPa

Density: 1.84 g/cm³

Relative Density (Air=1): N/A

Solubility(ies) in water: Fully miscible

Partition coefficient Octanol/Water: N/A

Auto-ignition temperature: 410-540°C (LPG)

Decomposition temperature: N/A

Viscosity: 23 mPas

Explosive properties: N/A

Oxidizing properties: N/A

9.2 Other Information

N/A

10. Stability and reactivity

10.1 Reactivity:

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability:

No specific test data related to reactivity available for this product or its ingredients.

10.3 Possibility of hazardous reactions

Reacts violently with water under heat development. Acts as an oxidizing agent on organic materials such as wood, paper and fats.

10.4 Conditions to avoid

No decomposition if used and stored according to specifications.



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10.5 Incompatibility (Materials to Avoid):

Acetaldehyde, acetonitrile, alkali hydrides, alkali metals, alkyl nitrates, benzyl alcohol, metal bromates, chlorates, chlorites, perchlorates and permanganates, phosphorus and phosphorus trichloride (violent or explosive reactions).

10.6 Decomposition/By Products:

In case of fire: see item 5.

10.7 Additional information:

Hygroscopic

Corrosive effect

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:		
Oral	LD50	2140 mg/kg (rat)
Inhalative	LC50/4 h	510 mg/l (rat)

Irritation: May cause irritation to skin, eyes and respiratory tract.

Corrosivity:

On the skin:

Causes poorly healing wounds. Strong caustic effect on skin and mucous membranes.

On the eye:

Burns, risk of blindness. Strong caustic effect.

After inhalation:

Burns of the mucous membranes, coughing and dyspnoea.

Sensitization: N/A

Repeated dose toxicity: N/A

Carcinogenicity: N/A

Mutagenicity: N/A

Toxicity for reproduction: N/A

Potential health effects:

After swallowing pain, vomiting, spasms, shock. After a latency period of several weeks risk of pyloric stenosis. Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.



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12. Ecological information

12.1 Aquatic toxicity:

Fish toxicity:

LC50	16-29 mg/l/96 h (Lepomis macrochirus)
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Daphnia toxicity:

EC50	29 mg/l/24 h (Daphnia magna)
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12.2 Remark:

Harmful effect on aquatic organisms due to pH shift. Toxic effect on fish and algae. Do not allow to enter waters, waste water, or soil!

12.3 Additional ecological information:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13. Disposal considerations

13.1 Information on disposal

Product

Dispose in accordance with federal, state and local environmental control regulations.

Packing

Empty containers should be taken for local recycling, recovery or waste disposal.

14. Transport information

14.1 Information on transport

14.1 UN Number

ADR/RID, IMDG, IATA: UN1830

14.2 Proper shipping name:

ADR/RID, IMDG, IATA: Sulphuric Acid Solution

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA: 8

14.4 Packing group

ADR/RID, IMDG, IATA: II

14.5 Environmental hazard

Marine pollutant: No



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14.6 Other transport information

ADR/IATA: Excepted Quantity (E2) contains 100ul (0,1 ml) liquid per ampoule. The excepted quantity limit is 30ml maximum net quantity per inner packaging and 500ml maximum net quantity per outer packaging. Can send up to 5000 (or 500 packs of 10 ampoules) ampoules in one outer box.

15. Regulatory information

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

Water hazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water.

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.