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Safety data sheet(SDS)

According to Regulation (EC) No.1907/2006

Revision: 00000

Date of Revision: 16.03.2020

1 Identification of the substances/ mixture and of the company/ undertaking

1.1 **Product Identifiers**

> R097 **Product Number**

Product Name Millon's Reagent

REACH Registration Number This product is a mixture. Reach registration number is not available for

this mixture.

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

1.2.1 Relevant identified uses Laboratory Chemicals, Analytical Purpose, Biochemical Analysis

For InVitro Diagnostic Use

Details of the supplier of the safety data sheet 1.3

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1.4 **Emergency Tel. No.**

> Emergency Tel. No. Please contact the regional HiMedia representation in your country

2 **Hazards Identification**

2.1 Classification of the substance or mixture

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

Corrosive to metals (Category 1), H290 Acute toxicity, Oral (Category 2), H300 Acute toxicity, Inhalation (Category 2), H330

Acute toxicity, Dermal (Category 1), H310 Skin corrosion (Category 1A), H314

Specific target organ toxicity - repeated exposure (Category 2), H373

Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

2.2 **Label elements**

Labeling according to Regulation (EC) No.1272/2008



Pictogram

Signal word Danger

Hazard Statement(s)

H290 May be corrosive to metals

H300+H310+H330 Fatal if swallowed, in contact with skin or if inhaled

H314 Causes severe skin burns and eye damage

H373 May cause damage to organs through prolonged or repeated exposure

Very toxic to aquatic life with long lasting effects H410

Precautionary Statement(s)

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

protection.

P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a

POISON CENTER or doctor/physician.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water [or shower].

P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for

breathing. Immediately call a POISON CENTER/doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

2.3 Other Hazards

None

3 Composition/Information On Ingredients

3.2 Mixture

Component		Classification	Concentration
Nitric acid			
CAS No.:	7697-37-2	As Per EC Regulation 1272/2008	>=30 - <=50%
EC No:	231-714-2	H272; H290; H314; H319; H318	

Component		Classification	Concentration	
Mercury dinitrate monohydrate				
CAS No. :	7783-34-8	As Per EC Regulation 1272/2008	>=10 - <=30%	
EC No:	233-152-3	H300; H330; H310; H373; H400; H410		

Refer Section 16 for complete statement of H codes & classification.

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 with plenty of soap and water. Consult a physician.

In case of eye contact

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

If swallowed

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

No data available.

4.3 Indication of immediate medical attention and special treatment needed

5 Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

No data available.

5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NOx), Mercury/mercury oxides

5.3 Precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary

5.4 Further information

No data available

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe 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. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see Section 13.

7 Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

7.2 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.

Recommended Storage Temperature: On receipt store between 10-30°C

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products.

Personal protective equipment

Hygiene measure

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

Eye/face protection

Tightly fitting saftey goggles; Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection

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

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Colourless to light greenish yellow solution

Environment exposure controls

Do not empty into drains.

9 Physical and chemical properties

Appearance

9.1 Information on basic physical and chemical properties

Odour No data available **Odour Threshold** No data available No data available рН Melting/freezing point No data available Initial boiling point and boiling range No data available Flash point No data available Flammability (Solid, gas) No data available No data available Vapour pressure Relative density No data available No data available Water Solubility Partition coefficient: n-octanol/water No data available **Autoignition Temperature** No data available No data available Viscosity Explosive properties No data available Oxidizing properties No data available Vapour density No data available Thermal decomposition No data available

9.2 Other safety information

10 Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

11 Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity- single exposure

No data available

Aspiration hazard

No data available

Potential Health Effects

Inhalation

REFER SECTION 2

Skin

REFER SECTION 2

Eyes

REFER SECTION 2

Ingestion

REFER SECTION 2

12 Ecological Information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

12.4 Mobility in soil

No data available

12.5 PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

13 Disposal Considerations

13.1 Waste treatments methods

Product

Offer surplus and non-recyclable solutions to a licenced disposal company. Contact a licenced professional waste disposal service to dispose off this material.

13.2 Contaminated packaging

Dispose of as unused product.

14 Transport Information

14.1 UN-No

ADNR: 2922 ADR: 2922 IATA_C: 2922 IATA_P: 2922 IMDG: 2922 RID: 2922

14.2 UN proper shipping name

ADNR : CORROSIVE LIQUID, TOXIC, N.O.S. (Nitric acid, Mercury dinitrate monohydrate)

ADR : CORROSIVE LIQUID, TOXIC, N.O.S. (Nitric acid, Mercury dinitrate monohydrate)

IATA_C : CORROSIVE LIQUID, TOXIC, N.O.S. (Nitric acid, Mercury dinitrate monohydrate)

IATA_P : CORROSIVE LIQUID, TOXIC, N.O.S. (Nitric acid, Mercury dinitrate monohydrate)

IMDG : CORROSIVE LIQUID, TOXIC, N.O.S. (Nitric acid, Mercury dinitrate monohydrate)

RID : CORROSIVE LIQUID, TOXIC, N.O.S. (Nitric acid, Mercury dinitrate monohydrate)

14.3 Transport hazard class(es)

ADNR: 8 ADR: 8 IATA_C: 8 IATA_P: 8 IMDG: 8 RID: 8

14.4 Packaging group

ADNR : II ADR : II IATA_C : II IATA_P : II IMDG : II RID : II

14.5 Environmental hazards

ADNR: NO ADR: NO IMDG: NO IATA_C: Marine Pollutant- NO IATA_P: NO

14.6 Special precautions for use

No data available

15 Regulatory Information

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

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

No data available

15.2 Chemical Safety Assessment

16 Other information

Text of H codes and classification mentioned in section 3

H272	May intensify fire; oxidizer.
H290	May be corrosive to metals.

H300 Fatal if swallowed.

H300 + H310 + Fatal if swallowed, in contact with skin or if inhaled

H330

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Further Information

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The information given in this safety data sheet is believed to be correct yet does not claim to be all inclusive. This document is intended only as a guide for appropriate precautionary handling of the material by properly trained individuals, information here being commensurate with the present state of our knowledge regarding the manner and conditions of use, handling, storage or disposal. The information provided herein shall not be considered as guarantee of the properties of the product. HiMedia Laboratories, shall not be held liable for any damage resulting from improper handling or contact with the above product. Unless explicitly stated on the product or in any of the documentation accompanying the product, it is intended for research or testing purpose only and is not to be used for any other purpose.