MILLON'S REAGENT (FOR PROTEIN)

SECTION 1: PRODUCT IDENTIFICATION

Product Name: MILLON'S REAGENT (FOR PROTEIN)
Product Code: TR 029
CAS#: Not available
CI#: Not available
Synonym: Not available
Chemical Name: MILLON'S REAGENT (FOR PROTEIN)
Chemical Formula: Not available

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:
Name: MILLON'S REAGENT (FOR PROTEIN), Mercury nitrate – nitric acid
Toxicological Data on Ingredients: Not available

SECTION 3: HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008
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
(Category 2), H225 Serious eye damage (Category 1), H318 Skin sensitization (Category 1), H317 Flammable liquids
Potential Acute Health Effects: May cause an allergic skin reaction. Causes serious eye damage
Carcinogenic Effects: Not available
Mutagenic Effects: Not available
Teratogenic Effects: Not available
Developmental Toxicity: Not available

SECTION 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Warm water must be used. Get medical attention if irritation occurs .
Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Serious Skin Contact: Not available
Inhalation: After inhalation: fresh air. ‘
Serious Inhalation: Not available
Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Serious Ingestion: Not available

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.
Special hazards arising from the substance or mixture.
Nitrogen oxides (NOx), Mercury/mercury oxides.
Advice for firefighters
In the event of fire, wear self-contained breathing apparatus.
Further information
Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Environmental precautions
Do not let product enter drains.

SECTION 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.Keep away from heat and sources of ignition.
Storage conditions
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.
Storage class
Storage class (TRGS 510): Non Combustible Liquids, Toxic

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection: Safety glasses, Lab coat, Dust respirator, Gloves. Be sure to use an approved/certified respirator or equivalent.
Personal Protection in Case of a Large Spill: Splash goggles, Full suit, Dust respirator, Boots, Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.
Exposure Limits: Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance Form	: Liquid.
Odour	: Not Available
Taste	: Not Available
Molecular Weight	: Not Available
Colour	: Not Available
pH	: Not Available

Boiling Point	: Not Available
Melting Point	: Not Available
Critical Temperature	: Not Available
Relative Density	: Not Available
Vapor Pressure	: Not Available
Vapor Density	: Not Available
Volatility	: Not Available
Odor Threshold	: Not Available
Water/Oil Dist. Coeff.	: Not Available
Ionicity (in Water)	: Not Available
Dispersion Properties	: Not Available
Solubility	: Not Available

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is stable under standard ambient conditions (room temperature).
Instability Temperature: Not available
Conditions of Instability: Not Available
Incompatibility with various substances: Not available
Corrosivity: Not Available
Special Remarks on Reactivity: Not Available
Special Remarks on Corrosivity: Not Available
Polymerization: Not Available
Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx), Mercury/mercury oxides.
Other decomposition products - No data available

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity to Animals:
Acute toxicity
Not Available
Serious eye damage/eye irritation Mixture causes serious eye irritation.
LD_{50}: - Rat - male - 333 mg/kg
LC_{50}: Not Available
Chronic Effects on Humans: Not Available
Other Toxic Effects on Humans: Not Available
Special Remarks on Toxicity to Animals: Not Available
Special Remarks on Chronic Effects on Humans: Not Available
Special Remarks on other Toxic Effects on Humans: Not Available

SECTION 12: ECOLOGICAL INFORMATION

Eco toxicity: Not available
BOD and COD: Not available
Products of Biodegradation: Not Available
Toxicity of the Products of Biodegradation: Not available
Special Remarks on the Products of Biodegradation: Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

UN number
ADR/RID: 2922 IMDG: 2922 IATA: 2922

UN proper shipping name
ADR/RID: CORROSIVE LIQUID, TOXIC, N.O.S. (Nitric acid, Mercury dinitrate monohydrate)
IMDG: CORROSIVE LIQUID, TOXIC, N.O.S. (Nitric acid, Mercury dinitrate monohydrate)
IATA: Corrosive liquid, toxic, n.o.s. (Nitric acid, Mercury dinitrate monohydrate)

Transport hazard class(es)
ADR/RID: 8(6.1) IMDG: 8(6.1) IATA: 8(6.1)

Packaging group
ADR/RID: II IMDG: II IATA: II

Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no

Special precautions for user
No data available

SECTION 15: OTHER REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Chemical safety assessment
For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.
H272 May intensify fire; oxidizer.
H290 May be corrosive to metals.
H300 Fatal if swallowed.
H300 + H310 +
H330
Fatal if swallowed, in contact with skin or if inhaled
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.

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.