

NESSLER'S REAGENT

SECTION 1: PRODUCT IDENTIFICATION

Product Name: NESSLER'S REAGENT

Product Code: TR 060 CAS#: Not available CI#: Not available **Synonym:** Not available Chemical Name: Not available Chemical Formula: Not available

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:

Name: NESSLER'S REAGENT

Toxicological Data on Ingredients: Classification according to Regulation (EC) No 1272/2008:

H290 - Corrosive to metals (Category 1) H300 - Acute toxicity, Oral (Category 2) H331 - Acute toxicity, Inhalation (Category 3)

H310 - Acute toxicity, Dermal (Category 1)

H314 - Skin corrosion (Category 1A)

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

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

SECTION 3: HAZARDS IDENTIFICATION

Potential Acute Health Effects: Very hazardous in case of skin contact (corrosive, irritant), of eye contact (irritant), of ingestion. Hazardous in case of inhalation. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe overexposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects: Very hazardous in case of eye contact (irritant), of ingestion. Hazardous in case of skin contact (irritant), of inhalation. Non-corrosive for skin. Non-sensitizer for skin. Non-permeator by skin

Carcinogenic Effects: Not available Mutagenic Effects: Not available Teratogenic Effects: Not available **Developmental Toxicity:** Not available

The substance is toxic to kidneys, the nervous system, mucous membranes, lungs. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

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.













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Skin Contact: If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention

Inhalation: Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.

Serious Inhalation: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion: Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available

SECTION 5: FIRE FIGHTING MEASURES

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not available

Flash Points: Not available
Flammable Limits: Not available
Products of Combustion: Not available

Fire Hazards in Presence of Various Substances: Not available

Explosion Hazards in Presence of Various Substances:
Risks Of Explosion Of The Product In Presence Of Mechanical Impact: Not available

Fire Fighting Media and Instructions:

Small Fire: Not available Large Fire: Not available

Special Remarks on Fire Hazards: Not available
Special Remarks on Explosion Hazards: Not available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spill: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid.

Large Spill: Corrosive liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of acetic acid. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

SECTION 7: HANDLING AND STORAGE

Precautions: Keep locked up Keep container dry. Do not ingest. Do not breathe gas/fumes/ vapour/spray. Never add water to this product In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes Keep away from incompatibles such as oxidizing agents, acids, moisture.

Storage: May corrode metallic surfaces. Store in a metallic or coated fiberboard drum using a strong polyethylene inner nackage

Corrosive materials should be stored in a separate safety storage cabinet or room.







SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection: Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Vapor 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: Mercuric iodide TWA: 0.01 (mg/m3) from OSHA (PEL) TWA: 0.05 CEIL: 0.15 (mg/m3) from ACGIH Sodium hydroxide CEIL: 2 (mg/m3) from ACGIH [1995] Consult local authorities for acceptable exposure limits.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance Form : Liquid

Odour: No data availableTaste: No data availableMolecular Weight: No data available

Colour : Colourless to light yellow

рΗ : No data available **Boiling Point** : No data available **Melting Point** : No data available **Critical Temperature** : Not Available **Relative Density** : Not Available **Vapor Pressure** : Not Applicable **Vapor Density** : Not Available : Not Available Volatility **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.

Instability Temperature: Not available **Conditions of Instability:** Not available

Incompatibility with various substances: Reactive with oxidizing agents, acids. Slightly reactive to reactive with

metals.

Corrosivity: Extremely corrosive in presence of aluminum. Slightly corrosive to corrosive in presence of glass, of zinc, of copper. Noncorrosive in presence of stainless steel(304), of stainless steel(316).

Special Remarks on Reactivity: Not available Special Remarks on Corrosivity: Not available

Polymerization: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Entry: Eye contact. Inhalation. Ingestion

Toxicity to Animals:

LD50: Oral - Mouse - 17 mg/kg (Mercuric iodide).





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Dermal; - 75 mg/kg [Rat]. (Mercuric iodide)

LC50: Not available

Chronic Effects on Humans: The substance is toxic to kidneys, the nervous system, mucous membranes, lungs.

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 **BOD5 and COD:** Not available

Toxicity of the Products of Biodegradation: Possibly hazardous short-term degradation products are not likely.

However, long-term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

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

DOT Classification: CLASS 8: Corrosive liquid

Identification: Corrosive liquid, n.o.s. (Sodium hydroxide; Mercuric iodide, solution) (Sodium hydroxide): UN2922 PG: II

Special Provisions for Transport: Marine Pollutant

SECTION 15: OTHER REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory: Mercuric Iodide; Potassium Iodide; Sodium Hydroxide; Water. **Other Regulations:** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). **Other Classifications:**

WHMIS (Canada): CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2A:

Material causing other toxic effects (VERY TOXIC). CLASS E: Corrosive liquid

DSD (EEC)

This product is not classified according to the EU regulations. Not applicable

HMIS (U.S.A.): Health Hazard: 2 Fire Hazard: 0 Reactivity: 2

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health Hazard: 2 Fire Hazard: 0 Reactivity: 2

Specific Protection: Not available

SECTION 16: OTHER INFORMATION

References: H & R Statements:

H290 - Corrosive to metals (Category 1) - May be corrosive to metals.





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H300 + H310 - Acute toxicity, Oral (Category 2) - Fatal if swallowed or in contact with skin

H331 - Acute toxicity, Inhalation (Category 3) - Toxic if inhaled.

H314 - Skin corrosion (Category 1A) - Causes severe skin burns and eye damage.

H373 - Specific target organ toxicity - repeated exposure (Category 2) - May cause damage to organs through prolonged or repeated exposure.

H400 - Acute aquatic toxicity (Category 1) - Very toxic to aquatic life.

H410 - Chronic aquatic toxicity (Category 1) - Very toxic to aquatic life with long lasting effects

Other Special Considerations: Not available

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.

