



Health	1
Fire	0
Reactivity	0

**Eco-Goldex Reagent  
E Series**

**Material Safety Data Sheet**

**Create Date:** Jan. 20, 2015

**Revision Date:** Sept. 1, 2019

**Reversion No. 5**

**Section 1: Chemical Product and Company Identification**

**Product Name:** Eco-Goldex E Series Agent

**Synonym:** low toxic eco-friendly leaching reagent for E-scrap materials

**Chemical Name:** a compound of several chemicals

**Chemical Formula:** Chemical Complex ingredients

**Section 2: Composition and Information on Ingredients**

Major Chemical Name	Formula	CAS Number	Weight ratio (%)
Sodium Oxide	Na <sub>2</sub> O	1313-59-3	20
Urea	CO(NH <sub>2</sub> ) <sub>2</sub>	57-13-6	20
Calcium Oxide	CaO	1305-78-8	20
Potassium Ferricyanide	K <sub>3</sub> Fe(CN) <sub>6</sub> ·10H <sub>2</sub> O	13746-66-2	15
Sodium Sulfate	Na <sub>2</sub> SO <sub>4</sub>	7757-82-6	10
Sodium Carbonate	Na <sub>2</sub> CO <sub>3</sub>	497-19-8	15

**Section 3: Hazards Identification**

**Potential Acute Health Effects:**

This product is trace toxic and classified as ordinary chemical material. Weak corrosive to eyes and skin. The amount of tissue damage depends on length of contact. Eye contact can result in irritation. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by sneezing and coughing. Inflammation of the eye is characterized by redness, watering, and itching. It is recommended that using gloves when transport this reagent.

#### 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. Cold water may be used. Get medical attention immediately.

**Skin Contact:**

In case of contact, flush skin with plenty of water for at least 15 minutes. Cold water may be used. Wash clothing before reuse. Get medical attention immediately.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:**

If swallowed, 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 immediately.

#### Section 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not available.

**Fire Hazards in Presence of Various Substances:** Not flammable.

**Explosion Hazards in Presence of Various Substances:** Not explosive.

#### Section 6: Accidental Release Measures

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Large Spill:**

Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

#### Section 7: Handling and Storage

**Precautions:**

Keep locked up. Keep container dry. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Do not 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.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8: Exposure Controls/Personal Protection

### Personal Protection:

Splash goggles. Synthetic apron. Vapor and dust respirator. Gloves.

### Exposure Limits:

No special respirator equipment required for short time exposure to this material.  
Long time exposure in this material requires dust respirator.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Solid (Granular solid) or powder

**Odor:** weak odor .

**Taste:** Not available.

**Molecular Weight:** N/A

**Color:** light grey color,

**pH (1% sol/water):** 10.5

**Boiling Point:** N/A

**Melting Point:** N/A

**Specific density:** 1.28 (Water = 1)(17°C)

**Vapor Pressure:** Not applicable.

**Volatility:** Not available.

**Solubility:** Soluble in cold water with minor insoluble solid particles(<0.1%) .

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Corrosivity:** weak corrosive

## Section 12: Disposal Considerations

### Waste Disposal:

Waste can be disposed as ordinary waste and of in accordance with federal, state and local environmental control regulations.

## Section 13: Transport Information

**Hazards Classification:** None

**Identification of Explosive:** not classified as explosive;

**Provisions for Transport:** product can be shipped / transported via marine vessel, rail road or air cargo. The substance is not subject to list of dangerous goods.

## Section 14: Other Regulatory Information

**UN Number:** Not Regulated

**Health Hazard:** 1

**Fire Hazard:** 0

**Reactivity:** 0

## Section 15: Toxicological Information

LD50: rat (oral): 485 mg/kg; LC50(ug/L): Rainbow Trout :793ug/l;

## Section 16: Other Information

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<b>Revision Summary</b>	This document has been updated to comply with the aligned Workplace Hazardous Materials Information System (WHMIS) with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Information in this document is based on the Federal legislation – the amended <i>Hazardous Products Act</i> and the new <i>Hazardous Products Regulations</i> (HPR).

### Disclaimer

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