

Date : 05/01/2016

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**KURILEX L-111**

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**1 IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER**

Product Name: KURILEX L-111  
Product Use: Corrosion inhibitor for closed loop system

Manufacturer: Kurita America, Inc.  
16850 Diana Lane, Suite B 104, Houston, Texas 77058

Contact: Chemical Group  
Phone: 281-998-3900  
FAX: 281-998-3903  
Emergency Telephone: CHEMTREC (Health/ Transport/ Regulatory)  
1-800-424-9300  
1-800-424-8802

**2 HAZARDS IDENTIFICATION**

Classification:

## Physical Hazard

Explosives:	Not applicable
Flammable gases:	Not applicable
Flammable aerosols:	Not applicable
Oxidizing gases:	Not applicable
Gases under pressure:	Not applicable
Flammable liquids:	Not applicable
Flammable solids:	Not applicable
Self-reactive substances:	Not applicable
Pyrophoric liquids:	Not classified
Pyrophoric solids:	Not applicable
Self-heating substances:	Not classified
Substances which in contact with water emit flammable gasses:	Not applicable
Oxidizing liquids:	Not applicable
Oxidizing solids:	Not applicable
Organic peroxides:	Not applicable
Corrosive to metals:	Not classified

## Health Hazard

Acute toxicity	
Oral:	Category 3
Dermal:	Not applicable
Gases:	Not applicable
Vapors:	Not applicable

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Dust & mists:	Not applicable
Skin corrosion/irritation:	Not applicable
Serious eye damage/eye irritation:	Not applicable
Respiratory sensitization:	Classification not possible
Skin sensitization:	Classification not possible
Germ cell mutagenicity:	Classification not possible
Carcinogenicity:	Classification not possible
Reproductive toxicology:	Classification not possible
Target organ systemic toxicity	
- Single exposure:	Category 1
Target organ systemic toxicity	
- Repeated exposure:	Category 1
Aspiration toxicity:	Classification not possible
Environmental Hazard	
Acute aquatic toxicity:	Category 3
Chronic aquatic toxicity:	Category 3

Signal word:

Danger

Labeling:



Hazard statements:

Toxic if swallowed  
Causes skin irritation  
Causes eye irritation  
Causes damage to organs  
Causes damage to organs through prolonged or repeated exposure.  
Harmful to aquatic life with long lasting effects

Precautionary statements

Prevention:

Do not eat, drink or smoke when using this product.  
Wash hands thoroughly after handling.  
Wear protective gloves/protective clothing/eye and face protection.  
Contaminated work clothing should not be allowed out of the workplace.  
Obtain special instruction before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust/fume/gas/mist/vapor/spray.

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Response: If swallowed : Immediately call a POISON CENTER or doctor/physician.  
If exposed or concerned : Get medical advice/attention.  
Wash contaminated clothing before reuse.  
IF ON SKIN : Wash with plenty of water.  
IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continuous rinsing.

Storage: Store locked up.

Disposal: Dispose of contents/container to follow the regional regulation.

**3 COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Weight %
Sodium Nitrite	7632-00-0	30 - 40%
Diethylacetamide	127-19-5	1 - 5%
Diethyleneglycol monomethyl ether	111-90-0	1 - 5%
Triethanolamine	102-71-6	1 - 5%
Benzotriazole	95-14-7	1 - 5%
Water	7732-18-5	50 - 70%

**4 FIRST-AID MEASURES**

Inhalation : May cause irritation. Remove victim from exposed area immediately to fresh air. Keep warm and at rest. Get medical treatment.

Skin contact: May cause irritation. Wash affected area with plenty of water. Take off immediately all contaminated clothing and wash immediately with plenty of water. If burns occur, cover affected area securely with sterile, dry, loose-fitting dressing. Get medical attention.

Eye contact: May cause irritation. Wash eyes immediately with large amount of water for more than 15 minutes. Get medical attention.

Ingestion: May cause unwell. Give large amount of water or milk immediately. Do not induce vomiting. Get medical attention.

**5 FIRE-FIGHTING MEASURES**

Fire-fighting procedures: Keep away from the source of fire or cool container with water in case of difficult transportation.

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

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**6 ACCIDENTAL RELEASE MEASURES**

Measures for leakage: Wear protective clothing. Stop leak. For small liquid spills, flush area with flooding amount of water. For large spills, stop the flow with dike, etc. without making liquid flow into sewer.

**7 HANDLING AND STORAGE**

Precautions for safe handling: Operate with filter respirator, safety goggles, working long-sleeved cloth and rubber gloves to avoid inhalation, eye and skin contact. Do not use empty container for drinking water supply, etc.

Conditions for safe storage: Avoid direct sunlight, keep in a dark, cool, and ventilated place. Keep container tightly closed. Store separate acids, bases, oxidizers, reducers and flammables.

**8 EXPOSURE CONTROL / PERSONAL PROTECTION**

Exposure limits:

Not applicable

ACGIH (TLV-TWA)
-
JSOH(Japan)
-

ACGIH (TLV-TWA)
-
JSOH(Japan)
-

Engineering controls: -

Personal protective equipment

Respiratory protection: Filter respirator.  
Skin protection: Wear PVC or synthetic rubber made gloves.  
Wear long-sleeved cloth safety shoes and apron.  
Eye protection: Wear goggles.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Colorless to light yellow  
Physical state: Liquid  
Specific gravity: 1.23 - 1.29 (20 °C)  
Solubility: Miscible at any ratio  
Odor: -  
Freezing point: Less than -10°C  
Flash Point: None  
pH: 6.5 - 8.5 (20°C)

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**10 SATBILITY AND REACTIVITY**

Stability: Stable on normal usage and handling.

Possibility of hazardous reactions: Do not mix with acids. During a fire, irritation and toxic gases may be generated by thermal decomposition or combustion.

**11 TOXICOLOGICAL INFORMATION**

Acute toxicity

LD (50) oral/rat: 248mg/l (Calculated)

**12 ECOLOGICAL INFORMATION**

Aquatic toxicity

LC (50) fish 24hr: 84 mg/l (Calculated)

**13 DISPOSAL CONSIDERATIONS**

Never draw chemical directly to waste water line. Request treatment to licensed waste-treatment company. Empty use containers completely, dispose containers.

**14 TRANSPORT INFORMATION**

Proper shipping name : Sodium Nitrite - Aqueous solution

UN Class : 5.1, 6.1

UN No. : 1500

Packing group : III

Prevent destruction by keeping away from water and careless dealing.

**15 REGULATORY INFORMATION**

All components of this product are included on the TSCA inventory.

**16 OTHER INFORMATION**

The information contained herein is, to the best of our knowledge and belief, accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in this use of the material.

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this use of the material.