

Material Safety Data Sheet

1. Product and Company Identification

Effective Date: 03/20/2002
Revision: 01

Cartridge Cleaner/Cartridge Renu

Principal Use: Cartridge cleaner
Description: Clear liquid

N. Jonas and Co., Inc.

4520 Adams Circle
P.O. Box 425
Bensalem, PA 19020-0425

Telephone: (215) 639-8071

Only in the Event of a Transportation Emergency Involving Spills, Leaks, Fires or Accidents,
call CHEMTREC at (800) 424-9300.

2. Composition/Information on Ingredients

<u>Ingredients:</u>	<u>%(w/w)</u>	<u>OSHA PEL</u>
Sodium hydroxide (CAS 1310-73-2)	--	2 mg/m3
Ethylene glycol monobutyl ether (111-76-2)	--	150 mg/m3
Sodium tripoly phosphate (CAS 7758-29-4)	--	Not listed
Water	--	Not listed

Ingredients not precisely identified are proprietary or non hazardous. Values are not product specifications.

3. Hazards Identification

Emergency Overview

Appearance:

Clear liquid, no odor

Physical Hazards:

Non hazardous

Health Hazards:

Irritant (eyes, skin, respiratory passages). Inha;lation (TLV).

* Hazard summary defined by OSHA Hazard Comm. Std., 29 CFR 1910.1200.

Potential Health Effects:

General:

This health hazard assessment based on information from commercial and scientific literature.

Ingestion:

Relative to other materials, this product is classified as "practically nontoxic" by ingestion.

Eye Contact:

Material Safety Data Sheet

This product will probably irritate human eyes following contact.

Skin Contact:

Repeated or prolonged contact with this material may irritate human skin.

Skin Absorption:

This product will probably not be absorbed through human skin.

Inhalation:

Mists of this product may irritate mucous membrane and upper respiratory tract.

4. First Aid Measures:

First Aid - Eyes:

Immediately flush eyes with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and treated by medical personnel.

First Aid - Skin:

Wash material off the skin with soap and plenty of water. If redness, itching or a burning sensation develops, get medical attention.

First Aid - Ingestion:

Give 1 or 2 glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. Never give anything by mouth to an unconscious person.

First Aid - Inhalation:

Remove victim to fresh air. If cough or other respiratory symptoms develop, consult medical personnel.

5. Fire Fighting Measures

Flashpoint and Method:

Will not flash

Autoignition Temperature:

Not applicable

Explosive Limits:

Not applicable

General Hazards:

Product will not burn.

Fire Fighting Instructions:

Use media suitable for surrounding fire.

Fire Fighting Equipment:

Self-contained breathing apparatus with full facepiece and protective clothing if involved in a fire with other materials.

Hazardous Combustion Products:

Material Safety Data Sheet

None

6. Accidental Release Measures

Spill Measures:

Avoid skin and eye contact with liquid. Soak up material and shovel into a chemical waste container. Remove container from work area.

7. Handling and Storage

Handling:

Wear appropriate skin, eye and respiratory protective equipment (See Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION)

Storage:

Keep container tightly closed. Store in a cool, dry place.

8. Exposure Controls/Personal Protection

Exposure Guidelines:

No ACGIH TLV or OSHA PEL have assigned to this product. The ACGIH TLV and OSHA PEL for sodium hydroxide are 2 mg/m³. The ACGIH TLV and OSHA PEL for ethylene glycol monobutyl ether are 97 mg/m³ and 120 mg/m³, respectively.

Engineering Controls:

Use ventilation adequate to maintain safe levels. Provide eyewash station and safety shower in work area.

Respiratory Protection:

If needed, use MSHA-NIOSH approved respirator for dusts, mists and fumes whose TLV is greater than 0.05 mg/m³.

Protective Clothing:

Gloves, apron and arm covers to avoid skin contact.

Eye Protection:

Chemical tight goggles.

9. Chemical and Physical Properties

Appearance: Clear liquid, no odor

Boiling Point: Not applicable

Vapor Pressure: No data

Vapor Density: No data

Solubility in Water: Soluble

pH: 6.5 - 7.5

Specif. Grav./Density: 1.0

% Volatile: <75

10. Stability and Reactivity

Stability:

Material Safety Data Sheet

Stable under normal conditions.

Incompatibility:

This product should not be mixed with any other chemical product.

Hazardous Decomposition Products:

None

Hazardous Polymerization:

Will not occur.

11. Toxicological Information

Possible Human Health Effects:

Inhalation:

Mists of this product may irritate mucous membrane and upper respiratory tract.

Skin Contact:

Repeated or prolonged contact with this material may irritate human skin.

Eye Contact:

This product will probably irritate human eyes following contact.

Ingestion:

Relative to other materials, this product is classified as "practically nontoxic" by ingestion.

Other Effects of Overexposure:

None known.

Note to Physician:

Not applicable.

12. Ecological Information

This product is completely soluble in water. Care should be taken to minimize release of undiluted product into the environment.

13. Disposal Consideration

Disposal Method:

Discarded product is not a hazardous waste under RCRA, 40 CFR 261.

Container Disposal:

Empty container retains product residue. Observe all hazard precautions. Do not distribute, furnish, reuse empty container except for storage and shipment of original product. Remove all product residue from container and puncture or otherwise destroy container before disposal.

14. Transport Information

DOT Hazard Description:

Not regulated

Material Safety Data Sheet

15. Regulatory Information

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:

All ingredients are listed on the TSCA Chemical Substances Inventory.

CERCLA and SARA Regulations (40 CFR 355, 370, 372):

This product does not contain any chemicals subject to the reporting requirements under CERCLA.

California Proposition 65:

None

16. Other Information

The information herein is given in good faith, but no warranty, expressed or implied, is made.

HMIS and NFPA Ratings

<u>Hazard:</u>	<u>HMIS Ratings:</u>	<u>NFPA Ratings:</u>
<u>Health:</u>	1	1
<u>Flammability:</u>	0	0
<u>Reactivity:</u>	0	0

<u>HMIS and NFPA Hazard Rating Codes:</u>
--

0 - Least	1 - Slight	2 - Moderate	3 - High	4 - Severe
-----------	------------	--------------	----------	------------

NOTE: These HMIS and NFPA Ratings are for "new" product. See appropriate sections of this MSDS for specific hazard information and safe handling instructions.