1. IDENTIFICATION

Product Identifier
Product Name Zap-OX

Other means of identification
SDS # ZO-16C

Recommended use of the chemical and restrictions on use
Recommended Use Crème Cleanser With Jeweler’s Rouge
Uses Advised Against For industrial and institutional use only.

Details of the supplier of the safety data sheet
Supplier Address
Nanoplas, Inc.
2950 Prairie St., SW, Suite 900
Grandville, MI 49418

Emergency Telephone Number
Company Phone Number 616-452-3707
Emergency Telephone 616-452-3707

2. HAZARDS IDENTIFICATION

Classification

<table>
<thead>
<tr>
<th>Hazard Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/Irritation</td>
</tr>
<tr>
<td>Eye damage/irritation</td>
</tr>
<tr>
<td>Acute toxicity(Oral)</td>
</tr>
</tbody>
</table>

Label elements

Signal word DANGER

Hazard statements
Harmful if swallowed. Causes skin irritation. Causes serious eye damage.

Appearance White Slurry
Physical State Slurry
Odor Mint Scent
Emergency Overview

Precautionary Statements - Prevention
Wash hands, face and any skin contact thoroughly after handling.  
Wear protective gloves/eye protection/ face protection.  
Do not eat, drink or smoke when using this product.

Precautionary Statements - Response
If on skin: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation persists: Get medical attention/advice.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.  
If swallowed: Rinse mouth. Call a poison center/doctor is you feel unwell.

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant.

Precautionary Statements - Storage
Store according to local rules and regulations.

Hazards not otherwise classified (HNOC)
None known

Other Information
None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica</td>
<td>14808-60-7</td>
<td>35-40</td>
</tr>
<tr>
<td>C9-11 Alcohol ethoxylate</td>
<td>68439-46-3</td>
<td>5-10</td>
</tr>
<tr>
<td>Sulfonic acid</td>
<td>27176-87-0</td>
<td>1-5</td>
</tr>
<tr>
<td>Water</td>
<td>-</td>
<td>&gt;50</td>
</tr>
</tbody>
</table>

The exact percentage (concentration) of composition has been withheld as a trace secret.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact  
Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.

Skin Contact  
Remove contaminated clothing and wash before reuse. Wash contaminated area with soap and water for 15-20 minutes. If skin irritation persists get medical advice/attention.

Inhalation  
Move person to fresh air. If respiratory irritation or dizziness occurs, seek immediate medical assistance.

Ingestion  
Call a poison center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. If vomiting occurs, keep head below hips to reduce risk of aspiration.

Protection of First-aiders  
Use personal protective equipment. Avoid contact with skin, eyes and clothing.
Most important symptoms and effects

**Symptoms**
Burning or irritation of affected areas. Causes skin irritation and serious eye damage.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician**
Treat symptomatically. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Not applicable. Product is not a fire hazard.

**Unsuitable Extinguishing Media**
High pressure water jet.

**Specific Hazards Arising from the Chemical**
None known

**Protective equipment and precautions for firefighters**
Firefighters should wear appropriate protective equipment, including self-contained breathing apparatus and impervious clothing.

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### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**
Depending on the extent of release, consider the need for restriction of access to spill area. Do not eat, drink, or smoke during clean up. Wear protective clothing, eye protection and impervious gloves (e.g. neoprene). Wash thoroughly after clean up.

**Environmental Precautions**
Prevent spills from entering storm sewers/drains or contact with soil.

**Methods and material for containment and cleaning up**

**Methods for Clean-Up**
Small spills may be wiped up and rinsed with water. For larger spills, contain spill with inert material (sand, clay). Transfer material to labeled containers for recovery or proper disposal. After removal, flush area with water.

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### 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling**
Read label before use. Avoid contact with skin or eyes. Wear protective gloves, eye protection, face protection. Use only according to label directions. If unsure about safe use, contact you supervisor. Do not eat, drink or smoke while using this product. Wash hands, face and any skin contact thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**
Storage Conditions  Do not contaminate water, food or feed by storage and disposal. Store in tightly closed, original container in a cool (10°C-30°C), dry area. Keep in an area inaccessible to children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica</td>
<td>TWA: 0.025 mg/m³</td>
<td>1 mg/m³</td>
</tr>
<tr>
<td>Silica</td>
<td>NIOSH(REL): 0.05 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering Control
Proper ventilation in accordance with good industrial hygiene should be provided.

Individual protection measures, such as personal protective equipment

Eye/Face Protection  Chemical resistant goggles and face protection.

Skin and Body Protection  Use water impervious gloves (latex or neoprene rubber). No breakthrough time has been established.

Respiratory Protection  Respiratory protection is not necessary under normal conditions of use.

Others  Protective clothing (long sleeves, pants), eyewash, safety shower are always advisable when working with chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Slurry</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Slurry white</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
<td>Odor</td>
<td>Mint Scent</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td></td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>2.1-3.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>0°C(32°F)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>100°C(212°F)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Similar to water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relative Density</td>
<td>1.20-1.30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not determined</td>
<td></td>
<td>(1=Water)</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Complete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto ignition Temperature</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity
Not specific reactive test data is available for this mixture. Under normal conditions of storage and use, hazardous reactions are not expected.

Chemical Stability
This product is stable at ambient temperatures and pressures.

Conditions to Avoid
Temperatures above 50ºC (122ºF) or below 10ºC (50ºF)

Hazardous Decomposition Products
None known

11. TOXICOLOGICAL INFORMATION

Product Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nepheline Syenite</td>
<td>&gt;2000mg/kg</td>
<td>&gt;2000mg/kg</td>
<td>20mg/L</td>
</tr>
</tbody>
</table>

Acute Toxicity
Toxicity data us not available for this mixture. Data below are estimated based on summation methods.

Summary
Skin and eye contact are most likely routes of exposure. Exposure causes skin irritation and serious eye damage.

Information on physical, chemical and toxicological effects

Symptoms
Please see section 4 of this SDS for symptoms.

Sub chronic/Chronic Toxicity
Repeated or prolonged contact causes skin irritation and serious eye damage.

Carcinogenicity
Ingredients are not listed on the NTP Report on Carcinogens, IARC Monographs or by OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity
This material has not been tested for acute environmental effects.

Persistence/Degradability
Material is not persistent. All organic components >1% are readily biodegradable.

Bioaccumulation
No evidence to suggest bio-accumulation will occur.
Mobility
Accidental spillage may lead to penetration of soil and groundwater.

Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes
Do not contaminate water, food or feed by disposal. If material cannot by dispose of by use according to label directions, contact you State Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance. Rinse container after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill. If container is one gallon or less, wrap empty container in plastic bag and discard in trash.

14. TRANSPORT INFORMATION

DOT
Not regulated

IATA
Not regulated

IMDG
Not regulated

15. REGULATORY INFORMATION

International Inventories
All components are listed.

US Federal Regulations

OSHA Hazard Status
This product meets the 1910.1200 definition of a “Hazardous Chemical”.

SARA 311/312 Hazard Categories
Acute Health Hazard  Yes
Chronic Health Hazard  Yes
Fire Hazard  No
Sudden Release of Pressure Hazard  No
Reactive Hazard  No

SARA 313
There are no ingredients that are subject to reporting requirements for the Section 313 of Title III of the Superfund Amendments and Reauthorization (SARA) of 1986 and 40CFR Part 372.

California Proposition 65
This product does contain a listed substance known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute: Silica CAS# 14808-60-7. In its current form however, no respirable quartz is present.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica 14808-60-7</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
</tbody>
</table>

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### 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HMIS</td>
<td>Health Hazards</td>
<td>Flammability</td>
<td>Physical Hazards</td>
<td>Personal Protection</td>
</tr>
<tr>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>

**Issue Date**: 14-Jul-2015  
**Revision Date**: 29-Jul-2015  
**Revision Note**: New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

*End of Safety Data Sheet*