SAFETY DATA SHEET

EFFECTIVE DATE: 7/29/2015

ITEM: First Aid Kit for Dogs

PART #  UPC
779      077403107797

CONTENTS:
Eye Wash SDS
Instant Cold Pack SDS
WoundSeal SDS

SHIPPING INFORMATION
not regulated
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name
EYEWASH

Other means of identification

Synonyms
None

Recommended use of the chemical and restrictions on use

Recommended Use
Medicinal products

Uses advised against
No information available

Details of the supplier of the safety data sheet

Supplier Name
NIAGARA PHARMACEUTICALS INC.

Supplier Address
60 INNOVATION DRIVE
FLAMBOROUGH
ON
L9H7P3
CA

Supplier Phone Number
Phone:905-690-6277
Fax:905-690-6281

Supplier Email
rjames@niagarapharmaceuticals.com

Emergency telephone number

Company Emergency Phone Number
905-708-7962

2. HAZARDS IDENTIFICATION

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Reproductive Toxicity
Category 1B

GHS Label elements, including precautionary statements
Emergency Overview

Signal word
Danger

Hazard Statements
May damage fertility or the unborn child

Appearance  Clear, colorless. No visual impurities
Physical state  Liquid
Odor  Odorless

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage
Store locked up

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

Hazards not otherwise classified (HNOC)
Not applicable

Unknown Toxicity
0% of the mixture consists of ingredient(s) of unknown toxicity

Other information
No information available

Interactions with Other Chemicals
No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boric acid (H3BO3)</td>
<td>10043-35-3</td>
<td>1 - 5</td>
<td>*</td>
</tr>
<tr>
<td>Sodium borate</td>
<td>1330-43-4</td>
<td>0.1 - 1</td>
<td>*</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret
4. FIRST AID MEASURES

First aid measures

Eye contact
Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin contact
Wash with soap and water.

Inhalation
Remove to fresh air.

Ingestion
Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects
No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical
No information available.

Hazardous Combustion Products
Carbon oxides.

Explosion Data
Sensitivity to Mechanical Impact
No.

Sensitivity to Static Discharge
No.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes.

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed. Store locked up.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boric acid (H3BO3)</td>
<td>TWA: 2 mg/m³ inhalable fraction</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>10043-35-3</td>
<td>STEL: 6 mg/m³ inhalable fraction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium borate</td>
<td>STEL: 6 mg/m³ inhalable fraction</td>
<td>(vacated) TWA: 10 mg/m³</td>
<td>TWA: 1 mg/m³</td>
</tr>
<tr>
<td>1330-43-4</td>
<td>TWA: 2 mg/m³ inhalable fraction</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

Appropriate engineering controls

Engineering Measures Showers
                      Eyewash stations
                      Ventilation systems
Individual protection measures, such as personal protective equipment

Eye/face protection
No special protective equipment required.

Skin and body protection
Wear protective gloves and protective clothing.

Respiratory protection
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear, colorless. No visual impurities</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
<td>Odor Threshold</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>7.4</td>
<td>None known</td>
</tr>
<tr>
<td>Melting / freezing point</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1</td>
<td>None known</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Completely soluble</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Softening Point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Particle Size</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Particle Size Distribution</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

<table>
<thead>
<tr>
<th>Route</th>
<th>Specific test data for the substance or mixture is not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td></td>
</tr>
<tr>
<td>Eye contact</td>
<td></td>
</tr>
<tr>
<td>Skin contact</td>
<td></td>
</tr>
<tr>
<td>Ingestion</td>
<td></td>
</tr>
</tbody>
</table>

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boric acid (H₃BO₃)</td>
<td>= 2660 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>&gt; 2.03 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>10043-35-3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium borate</td>
<td>= 2403 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>1330-43-4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Mutagenic Effects

No information available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Reproductive toxicity

Contains a known or suspected reproductive toxin.
STOT - single exposure
No information available.

STOT - repeated exposure
No information available.

Chronic Toxicity
No known effect based on information supplied. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin. Possible risk of irreversible effects.

Target Organ Effects

Aspiration Hazard
No information available.

Numerical measures of toxicity  Product Information
The following values are calculated based on chapter 3.1 of the GHS document
Not applicable

12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boric acid (H3BO3) 10043-35-3</td>
<td></td>
<td>72h LC50: = 1020 mg/L (Carassius auratus)</td>
<td></td>
<td>48h EC50:  115 - 153 mg/L</td>
</tr>
<tr>
<td>Sodium borate 1330-43-4</td>
<td>96h EC50: = 158 mg/L (Desmodesmus subspicatus)</td>
<td>96h EC50:  2.6 - 21.8 mg/L (Pseudokirchneriella subcapitata)</td>
<td>96h LC50: = 340 mg/L (Limanda limanda)</td>
<td>48h LC50:  1085 - 1402 mg/L</td>
</tr>
</tbody>
</table>

Persistence and Degradability
No information available.

Bioaccumulation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boric acid (H3BO3) 10043-35-3</td>
<td>-0.757</td>
</tr>
</tbody>
</table>

Other adverse effects
No information available.
13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods
This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging
Dispose of contents/containers in accordance with local regulations.

California Hazardous Waste Codes 561
This product contains one or more substances that are listed with the State of California as a hazardous waste.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boric acid (H3BO3)</td>
<td>Toxic</td>
</tr>
<tr>
<td>10043-35-3</td>
<td></td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>DOT Proper Shipping Name Hazard Class</th>
<th>NOT REGULATED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NON REGULATED</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
</tbody>
</table>

| TDG | Not regulated |
| MEX | Not regulated |
| ICAO| Not regulated |

<table>
<thead>
<tr>
<th>IATA Proper Shipping Name Hazard Class</th>
<th>Not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NON REGULATED</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMDG/IMO Hazard Class</th>
<th>Not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N/A</td>
</tr>
</tbody>
</table>

| RID | Not regulated |
| ADR | Not regulated |
| ADN | Not regulated |

15. REGULATORY INFORMATION

International Inventories

| TSCA | Complies |
| DSL  | All components are listed either on the DSL or NDSL. |

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Fire Hazard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sudden release of pressure hazard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Rhode Island</th>
<th>Illinois</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium borate</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1330-43-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

International Regulations

<table>
<thead>
<tr>
<th>Component</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium borate</td>
<td></td>
<td>Mexico; TWA 1 mg/m³</td>
</tr>
<tr>
<td>1330-43-4</td>
<td>(0.1 - 1)</td>
<td></td>
</tr>
</tbody>
</table>

Canada
WHMIS Hazard Class
Not determined

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Component</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium borate</td>
<td></td>
<td>Mexico; TWA 1 mg/m³</td>
</tr>
<tr>
<td>1330-43-4</td>
<td>(0.1 - 1)</td>
<td></td>
</tr>
</tbody>
</table>

NFPA
Health Hazards 0
Flammability 0
Instability 0
Physical and Chemical Hazards - Personal Protection
X

HMIS
Health Hazards 1*
Flammability 0
Physical Hazard 0

Chronic Hazard Star Legend  * = Chronic Health Hazard

Prepared By
Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501
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 a 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
Safety Data Sheet

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Issue Date: 07/30/14

SECTION 1: Identification

1.1. Product identifier
COOL™ Instant Cold Pack Urea INST56U, INST57U, INST68U

Product Identification Numbers
INST5624U, INST5680U, INST5650BXU, INST5716U, INST5724U, INST5748U, INST6816U, INST6824U

1.2. Recommended use and restrictions on use

Recommended use
Instant cold pack for First Aid & Therapy

1.3. Supplier’s details:

MANUFACTURER: Nortech Labs Inc
ADDRESS: 125 Sherwood Ave, Farmingdale NY 11735
TELEPHONE: 888-COLD-PAK (265-3725)

1.4. Emergency telephone number
CHEMTREC – (800) 424-9300

SECTION 2: Hazard identification

2.1. Hazard classification

2.2. Label elements
Signal word
Not applicable.

Symbols
Not applicable.

Pictograms
Not applicable.

2.3. Hazards not otherwise classified
None.
SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>UREA</td>
<td>57-13-6</td>
<td>42 - 52</td>
</tr>
<tr>
<td>WATER</td>
<td>7732-18-5</td>
<td>40 - 50</td>
</tr>
<tr>
<td>OUTER FILM</td>
<td>None</td>
<td>5 - 10</td>
</tr>
<tr>
<td>INNER FILM</td>
<td>None</td>
<td>1 - 3</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

**Inhalation:**
No need for first aid is anticipated.

**Skin Contact:**
Wash with soap and water. If signs/symptoms develop, get medical attention.

**Eye Contact:**
Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

**If Swallowed:**
Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed
See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon monoxide</td>
<td>During Combustion</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>During Combustion</td>
</tr>
</tbody>
</table>

5.3. Special protective actions for fire-fighters
No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Ventilate the area with fresh air.
6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

7.2. Conditions for safe storage including any incompatibilities
No special storage requirements. If possible, store in a cool dry place

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>Agency</th>
<th>Limit type</th>
<th>Additional Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>UREA</td>
<td>57-13-6</td>
<td>AIHA</td>
<td>TWA(as total particulates):10 mg/m3</td>
<td></td>
</tr>
</tbody>
</table>

ACGIH : American Conference of Governmental Industrial Hygienists AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer’s Recommended Guidelines
OSHA : United States Department of Labor - Occupational Safety and Health Administration TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection
None required.

Skin/hand protection
No chemical protective gloves are required.

Respiratory protection
None required.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

**General Physical Form:** Liquid

**Odor, Color, Grade:** White liquid with hazy color
**Odor threshold** No Data Available
**pH** 7

**Boiling Point** 212 °F
**Flash Point** No flash point
**Evaporation rate** No Data Available
**Flammability (solid, gas)** Not Applicable
**Flammable Limits(LEL)** Not Applicable
**Flammable Limits(UEL)** Not Applicable
**Vapor Pressure** 760 mmHg

**Density** No Data Available
**Specific Gravity** 1.33

**Solubility in Water** Complete
**Solubility- non-water** No Data Available

**Partition coefficient: n-octanol/ water** No Data Available
**Autoignition temperature** No Data Available
**Decomposition temperature** No Data Available
**Viscosity** No Data Available

SECTION 10: Stability and reactivity

**10.1. Reactivity**
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

**10.2. Chemical stability**
Stable.

**10.3. Possibility of hazardous reactions**
Hazardous polymerization will not occur.

**10.4. Conditions to avoid**
Sparks and/or flames

**10.5. Incompatible materials**
None known.

**10.6. Hazardous decomposition products**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None known.</td>
</tr>
</tbody>
</table>

Refer to section 5.2 for hazardous decomposition products during combustion.
SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:
No health effects are expected.

Skin Contact:
Contact with the skin during product use is not expected to result in significant irritation.

Eye Contact:
Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Toxicological Data
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

<table>
<thead>
<tr>
<th>Acute Toxicity</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall product</td>
<td>Ingestion</td>
<td>No data available; calculated ATE &gt; 5,000 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

ATE = acute toxicity estimate

<table>
<thead>
<tr>
<th>Skin Corrosion/Irritation</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Serious Eye Damage/Irritation</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Skin Sensitization</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Respiratory Sensitization</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Germ Cell Mutagenicity</th>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
</table>

Carcinogenicity
Reproductive Toxicity

Reproductive and/or Developmental Effects

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
</table>

Target Organ(s)

Specific Target Organ Toxicity - single exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
</table>

Specific Target Organ Toxicity - repeated exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
</table>

Aspiration Hazard

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
</tr>
</thead>
</table>

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Eco toxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods
Dispose of contents/container in accordance with the local/regional/national/international regulations.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty and clean product containers may be disposed as non-hazardous waste. Consult your specific regulations and service providers to determine available options and requirements.

EPA Hazardous Waste Number (RCRA): Not regulated
**SECTION 14: Transport Information**

For Transport Information, please call 888-COL-PAK (265-3725)

**SECTION 15: Regulatory information**

15.1. US Federal Regulations

Contact Nortech Labs Inc for more information.

311/312 Hazard Categories:

- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No
- Immediate Hazard - No
- Delayed Hazard - No

15.2. State Regulations

Contact Nortech Labs Inc for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact Nortech Labs Inc for more information.

15.4. International Regulations

Contact Nortech Labs Inc for more information.

**This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

**SECTION 16: Other information**

NFPA Hazard Classification

- Health: 1
- Flammability: 1
- Instability: 1
- Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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Nortech Labs Inc SDSs are available at [www.nortechlabs.com](http://www.nortechlabs.com)
WoundSeal Powder
(Packaged in individual packages)

1. Chemical Product and Company Identification
   Synonyms: QR (Quick Relief)® for Minor External Bleeding from Wounds and Procedures
   Molecular Weight: N/A – It is a mixture of 2 components.
   Appearance: brown powder
   Package Size: <4g

   Manufacture:
   Biolife LLC, 8163 25th Court E, Sarasota, FL, 34243 (USA)
   Ph. 941-360-1300
   www.biolife.com

2. Hazard Identification:
   Health Rating: 1
   Flammability Rating: 0
   Reactivity Rating: 2
   Personal Equipment Needed: eye protection, dust mask, gowning

   A reactivity rating of two is due to the powder’s exothermic absorption of water. Thicker liquids, such as blood, absorb more slowly thus reducing the amount of heat generated. Large quantities of powder will generate considerable heat when mixed with water.
Potential Health Effects:

Inhalation:
If inhaled, the powder may be a temporary respiratory irritant.

Ingestion:
The powder will pass thru the digestive track.

Skin Contact:
The dry powder is not a skin irritant.

Eye Contact:
The powder is an irritant to the eyes contact should be avoided.

Chronic Exposure:
N/D

Other:
WoundSeal reacts exothermically when exposed to water. This could result in a physical burn.
Application of the powder to an exposed dry wound may result in a stinging sensation

3. Identification of Components

<table>
<thead>
<tr>
<th>Identification</th>
<th>Percent by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Ferrate</td>
<td>10 to 15</td>
</tr>
<tr>
<td>Ion Exchange Resin</td>
<td>85 to 90</td>
</tr>
</tbody>
</table>

4. First Aid Measures

Inhalation:
Remove the person to fresh air.
Seek medical attention as needed.

Ingestion:
Do not induce vomiting.
Seek medical attention as needed.

Eye Contact:
Flush the eye with running water for at least 5 minutes. The eye may be temporarily red.
Seek medical attention as needed.

**Skin Contact:**
Remove the dry powder from the skin with a brush.
Rinse the dry powder with a large volume of water.
Seek medical attention as needed.

---

5. **Fire Fighting Information**

**Combustibility:**
- **Flash Point:** No Flash

**Explosive Nature:**
- **Explosive Limits:** N/D

**Fire Extinguishing Media:**
Do not use foam or water. Extinguish fires with dry chemicals, sand, soda ash, or evacuate the area and allow the fire to burn.

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6. **Accidental Release Measures**

Wear appropriate personal protective equipment. Remove sources of ignition, and ventilate the area. Pick up material in a way to avoid creating dust and dispose in an appropriate container. Properly report any spills that may be an environmental concern.

Disposal of the material is to be conducted in compliance with all governmental regulations.

---

7. **Handling and Storage**

Keep the packages in a cool dry environment. If the powder is removed from its protective packaging, dispose of it because it will inactivate itself by absorbing moisture from the air. Once the powder goes from dark brown to light tan color it is no longer useful.

---

8. **Exposure Controls and Personal Protection**

**OSHA Permissible Exposure Limit (PEL):** N/D
AGGIH Threshold Limit Value (TLV): N/D

Ventilation:
Work in a well ventilated facility. Avoid concentrating the dust in a confined work area.

Respiratory Protection: N/A

Other Personal Protection Equipment: N/A

9. Physical and Chemical Properties
   Appearance: Brown powder
   Odor: None; slightly astringent
   Solubility: Insoluble
   Density (g/ml): 0.8
   pH: N/A (solid powder)
   Vapor Pressure (mmHg): N/A (solid powder)
   % Volatile by Volume: N/A (solid powder)
   Freezing Point: N/A (solid powder)
   Melting Point: N/A (solid powder)
   Sublimation Point: Polymer portion of the powder will sublimate at >300°C

10. Stability and Reactivity
    Stability:
    If the material is kept, dry and near 25°C, it is very stable. It will exothermically react with water and other liquids, producing O₂ (g) as it decomposes.

    Decomposition Products:
The byproducts of decomposition when wetted are polymer, iron oxide, and oxygen.

    Hazardous Decomposition Products
    None Known

    Incompatibilities:
    N/A under designed usages

    Conditions to Avoid:
    N/A under designed usages
11. Toxicological Information
   No Data

12. Ecological Information
   Environmental and Ecological impacts are not known.

13. Disposal Measures
   Disposal of the material is to be conducted in compliance with all governmental regulations.

14. Transportation Information

   Storage and Labeling:
   Do not remove the powder from the package until it is to be used.

15. Regulatory Information

   US Regulations:

   Superfund Amendments and Reauthorization Act of 1986 Title III
   (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

   Immediate (Acute) Health Hazard? Yes
   Delayed (Chronic) Health Hazard? No
   Fire Hazard? No
   Reactive Hazard? No
   Sudden Release of Pressure Hazard? No

   Superfund Amendments and Reauthorization Act of 1986 Title III
   (Emergency Planning and Community Right-to-Know Act of 1986) Section 313
To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

**Canadian Regulations:**

WHMIS information: D2B- eye or skin irritant. Refer elsewhere in the MSDS for specific warning and safe handling information.

CPR Statement: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Regulations (CPR) and the MSDS contains all the information required by the CPR.

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16. **Other Information**

Disclaimer:

The submission of the MSDS is required by law and is not an assertion that the product is hazardous when used in the proper conditions, by trained individuals. The information herein is dependable and accurate to the best of Biolife LLC’s knowledge. There is no assertion to any claims if this product is combined with any other material.

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