

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.****Mart Tech Services -Arcus Inc**

2450 Adie Rd.  
Maryland Heights, MO 63043  
800/543-6278  
INFOTRAC: 800-535-5053

PRODUCT NAME: **POWERKLEEN RI**  
 PRODUCT DESCRIPTION: Clear liquid.  
 CHEMICAL FAMILY: Alkaline minerals solution.  
 REVISION DATE: 03/26/12 PRINT DATE: 03/27/12 PRINT TIME: 11:52

**SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS.**

<u>Hazard</u>	<u>CAS #</u>	<u>WT/Wt % Less Than</u>
SODIUM MOLYBDATE	7631-95-0	<10
ACGIH TLV: 3 MG/M3 (TWA);		
OSHA PEL: 5 MG/M3 (TWA);		
SODIUM NITRITE	7632-00-0	<5 SARA Rep.
ACGIH TLV: N.E. (TWA);		
OSHA PEL: N.E. (TWA);		

NOTE 1 - Section 313 Supplier Notification: "SARA Rep." identifies chemical ingredients subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986. This information should be included in all MSDS's that are copied and distributed for this material.

Sodium Nitrite and solutions of Nitrate Compounds are new additions to the Section 313 listing in 1995, and were not included in earlier notifications.

**SECTION 3 - HAZARDS IDENTIFICATION.**

HEALTH-----	2
INSTABILITY-----	0
FIRE-----	0
OTHER-----	x

HAZARD SIGNAL (short term contact or inhalation only):

(0=insignificant; 1=slight; 2=moderate; 3=high; 4=extreme)

THRESHOLD LIMIT VALUE: N.E., blended product. See Section 2 for information on listed ingredients.

PRIMARY ROUTES OF ENTRY: Eye contact, Skin contact, Inhalation of spray.

EFFECTS OF ACUTE OVEREXPOSURE:

Eyes - Irritation, severe irritation possible with prolonged contact.

Skin - Irritation possible with prolonged contact.

Inhalation of mists of product or solution - Irritation of respiratory tract. Headache.

Swallowing - Irritation of mouth, throat and stomach. Stomach upset. Possible reduced blood pressure, rapid pulse, headache, nausea, vomiting, visual disturbances, cyanosis, collapse and coma.

EFFECTS OF CHRONIC OVEREXPOSURE: Unknown; none expected beyond acute effects.

CARCINOGENICITY: This product or its ingredients have not been identified as a carcinogen or probable carcinogen by NTP, IARC monographs, or OSHA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Some people have an allergic sensitivity to nitrites. Otherwise, none known or expected.

PRODUCT NAME: **POWERKLEEN RI**  
REVISION DATE: 03/26/12 PRINT DATE: 03/27/12 PRINT TIME: 11:52

---

#### **SECTION 4 - FIRST AID MEASURES.**

**EYES** - Immediately flush with cool running water holding eye lids apart. Remove contact lenses if present, and continue flushing for 15 minutes. Get medical assistance if irritation persists or is severe.

**SKIN** - Flush thoroughly with running water. Remove contaminated clothing and wash before reuse. If irritation develops and persists, get medical advice or assistance.

**INHALED** - Remove to fresh air. Immediately call for medical advice or assistance if breathing difficulty or irritation is severe or continues.

**SWALLOWED** - Rinse mouth with large amounts of water. Drink water, milk or other fluids to dilute. Do not induce vomiting. Call for medical advice or assistance if difficulties and discomfort develop and continue.

---

#### **SECTION 5 - FIRE FIGHTING MEASURES.**

FLASH POINT	None
FLAMMABLE LIMITS LEL-UEL	NA

Extinguishing media: As needed for surrounding fire.

Special Fire Fighting Procedures: For any chemical fire wear self contained breathing apparatus, and protective clothing to prevent contact.

Unusual Fire and Explosion Hazards: None.

Hazardous Combustion Products: Oxides of carbon, nitrogen, and molybdenum.

---

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES.**

Small Spills: Flush to drain with excess water.

Disposal: Normally sewer disposable in dilute solutions.

---

#### **SECTION 7 - HANDLING AND STORAGE.**

Handling: Avoid unnecessary contact with product. Avoid breathing mists of product or solution. Wash after use.

Prevent contact with incompatible materials; see Section 10.

---

#### **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION.**

Ventilation: General or local to avoid exposure to irritating mists if mists are generated.

Respirator: None normally required. NIOSH/MSHA approved respirator where conditions may cause exposure limits to be exceeded from mists of product or solution.

Eye Protection: Glasses, goggles, or face shield where conditions may cause eye exposure.

Protective Clothing: Chemical resistant, impermeable gloves as needed to prevent excessive contact. Full body covering covering and shoes as needed to prevent excessive contact.

Other Protective Equipment or Measures: Eye wash stations or running water in the work area.

---

#### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES.**

PRODUCT NAME: **POWERKLEEN RI**  
REVISION DATE: 03/26/12 PRINT DATE: 03/27/12 PRINT TIME: 11:52

Boiling Point: 212 ±10°F Vapor Pressure: N.E.  
Specific Gravity: 1.0 ±0.1 Vapor Density: N.E.  
Percent Volatile: 80% or greater. Evaporation Rate: Like water.  
n-Butyl acetate = 1  
Solubility in Water: Complete. pH: 9 ± 1  
Appearance and Odor: See Section 1. V.O.C.: Nil.

---

**SECTION 10 - STABILITY AND REACTIVITY.**

Stable: Yes. Hazardous Polymerization will not occur.

Conditions to Avoid: Contact with incompatible materials (see below).

Incompatible Materials: Strong oxidizing agents, strong acids, and strong reducing agents.

Do not mix with amines. Contains nitrites which may react with secondary and tertiary amines in acidic conditions to form nitrosamines. Some nitrosamines have been found to cause cancer in animal studies.

---

**SECTION 11 TOXICOLOGICAL INFORMATION**

no data

---

**SECTION 12 - ECOLOGICAL INFORMATION**

no data

---

**SECTION 13 - DISPOSAL INFORMATION**

WASTE MANAGEMENT INFORMATION:

This product when disposed of MAY BE classified as a hazardous waste per 40 CFR, part 261. The user is responsible for treating spilled or unused material in accordance with all local, state, and federal regulations. (Refer to 40 CFR, part 261, subparts C and D; and 40 CFR, 1900.1200 OSHA regulations.)

---

**SECTION 14 - TRANSPORT INFORMATION**

DOT Information- 49 CFR 172.101

DOT Description: NON-REGULATED BY D.O.T.

CONTAINER/MODE: (LIQUID)Case/DRUM

---

**SECTION 15 - REGULATORY INFORMATION**

US FEDERAL Regulations: (TSCA Toxic Substances Control Act) Status  
TSCA (United States) The intentional ingredients of this product are listed.

CERCLA RQ-40 CFR 302.4 (a): None

SARA 302 EHS COMPONENTS: None

SECTION 311/312 Acute: Yes, Chronic: No, Fire: No, Pressure: No, Reactivity: No

SARA 313 COMPONENTS - 40 CFR 372.65: See Section 2

International Regulations Inventory Status: not determined

---

**SECTION 16 - OTHER INFORMATION**

---

PRODUCT NAME:           **POWERKLEEN RI**  
REVISION DATE:       03/26/12     PRINT DATE: 03/27/12     PRINT TIME: 11:52

---

---

DISCLAIMER:

The above information is, to the best of our knowledge, current, accurate, and complete based on information reasonably available to us as of the date of preparation of this form. However, it is the users's responsibility to determine the safety, toxicity and suitability for his or her own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by us as to the effects of such use or on the safety or toxicity of this product. Nor do we assume any liability arising out of use by others of the product. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when exceptional conditions or circumstances exist or because of applicable laws or regulations.

---

NE = NOT ESTABLISHED / NA = NOT APPLICABLE

END OF DOCUMENT

---