

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION.

MART TECHNICAL SERVICES -ARCUS INC.

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 Maryland Heights, MO 63043
 800/543-6278
 MEDICAL EMERGENCY 1-800-246-2890

PRODUCT NAME: **POWER KLEEN 810S**
 PRODUCT DESCRIPTION: Pinkish Blue in powder, stick or pellet, Essentially Odorless
 CHEMICAL FAMILY: corrosion inhibitor
 REVISION DATE: 12/23/04 PRINT DATE: 11/02/05 PRINT TIME: 10:11
 Further Proper Shipping Names may be appropriate, depending on circumstances.

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS.

<u>Hazard</u>	<u>CAS #</u>	<u>WT/Wt % Less Than</u>
SODIUM METASILICATE	6834-92-0	<50%
ACGIH TLV: N.E. (TWA);		
OSHA PEL: N.E. (TWA);		
SODIUM BORATE		<50%
SODIUM NITRATE	7631-99-4	5%
ACGIH TLV: 10 MG/M3 (DUST) (TWA);		
OSHA PEL: 15 MG/M3 (TWA);		
SODIUM NITRITE	7632-00-0	25%
ACGIH TLV: N.E. (TWA);		
OSHA PEL: N.E. (TWA);		
2 MG/M3		
SODIUM TOLYTRIAZOLE	64665-57-2	<10%
ACGIH TLV: 10MG/M3 (TWA);		
OSHA PEL: 15MG/M3 (TWA);		
(nuisance dust)		

NOTE 1 - Section 313 Supplier Notification: "1" 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.

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SECTION 3 - HAZARDS IDENTIFICATION.

HEALTH----- 2
 INSTABILITY----- 0
 FIRE----- 1
 OTHER----- x

HAZARD SIGNAL (short term contact or inhalation only):

Health - 2 Instability - 0
 Fire - 0 Other - x

(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.

EFFECTS OF ACUTE OVEREXPOSURE:

Eyes - Irritation, severe irritation possible with prolonged contact.
 Skin - Irritation possible with prolonged contact.
 Inhalation of dust of product or mists of 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.

>Contains borax. High dose long term animal studies with similar borate chemicals demonstrated reproductive effects in male animals and fetal effects in female animals. However, human studies of occupational exposures have not revealed similar 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.

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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 minnutes. Get medical assistance.

SKIN - Immediately flush with cool running water for 15 minutes. Remove contaminated clothing and wash before reuse. If irritation or burn 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 unless directed by medical personnel. Immediately call for medical advice or assistance.

SECTION 5 - FIRE FIGHTING PROCEDURES

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: Product itself is noncombustible. On decomposition, may release oxygen to enhance combustion.

Hazardous Combustion Products: oxides of nitrogen and sulfur.

SECTION 6 - ACCIDENTAL RELEASE MEASURES.

Small Spills, less than 2 pounds: Recover as practical. Flush spill area to drain with excess water.

Large Spills: Only knowledgeable and properly protected people should work with a large spill. Get professional assistance if necessary.

Stop source of discharge if safe to do so. Evacuate unprotected personnel from the immediate area. Keep material dry. Contain spilled material, and keep from discharging to surface waters. Recover to drum for later use, treatment or disposal.

Flush residual to drain.

Notify local, state, or national authorities if required.

Disposal: Product and un-neutralized solutions are alkaline. Normally sewer disposable in dilute solutions. Check with local authorities about any possible restrictions.

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SECTION 7 - HANDLING AND STORAGE.

Handling: Avoid unnecessary contact with product. Avoid breathing product dust, or mists of solution of product.

Wash immediately after contact. Wash after use.

Clean up spills promptly to prevent accidental contact.

Prevent contact with incompatible materials; see Section 10.

Storage: Keep containers tightly closed. Keep product dry to prevent caking.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION.

Ventilation: General or local to avoid exposure to irritating product mists of solutions.

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

Eye Protection: Glasses, goggles, or face shield to prevent 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 in the work area.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT	NA
VAPOR PRESSURE (MM HG@70°F)	NE
SPECIFIC GRAVITY	NA
VAPOR DENSITY (AIR=1)	NA
PERCENT VOLATILE	NA
EVAPORATION RATE (ETHER=1)	NA
SOLUBILITY IN WATER	soluble
PH	10.9 (2%)
APPEARANCE AND ODOR	See Section 1
V.O.C.	0

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.

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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

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