



your partner in food safety

SDS

Safety Data Sheet

1) Product Identification

Product Name: X-Puma

Product Code: I00180

Recommended Use: Designed to work in conjunction with products MARE, CHAMELEON, DEGREZER, KIK ACID, and 10-CHLOR for a variety of applications.

Producer: Birko Corporation
9152 Yosemite Street
Henderson, CO 80640-8027

Contact Information: (303) 289-1090 or 1-800-525-0476

Emergency Number: CHEMTREC 1-800-424-9300

2) Hazard(s) Identification

| Health | Environmental | Physical |
|--|----------------------------------|----------|
| Acute Toxicity Cat. 5 Skin Corrosion Cat. 2 Eye Effects Cat. 2 | Aquatic Toxicity Acute Cat. 4 | |
| | | |

Labeling:**Symbol:****Signal Word: Warning
Irritant**

Hazard Statement(s): Causes irreversible eye damage. Harmful or fatal if swallowed. Causes burns. Do not get into eyes, on skin, or on clothing. May be corrosive to certain types of metals.

Precautionary Statement(s): Use rubber gloves, protective splash-proof goggles, and protective clothing. Remove contaminated clothing and wash before re-use. Do not contaminate food, feed, or water. Keep container closed when not in use.

3) Composition/ Information on Ingredients

| Name(s) | Synonym(s) | CAS Number | Weight % |
|-------------|------------|------------|----------|
| Citric Acid | | 77-92-9 | < 5% |

4) First-Aid Measures

| Inhalation | Skin Contact | Eye Contact | Ingestion |
|---|---|--|--|
| If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen. | Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before re-use and discard contaminated shoes. | If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention. | Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended. |

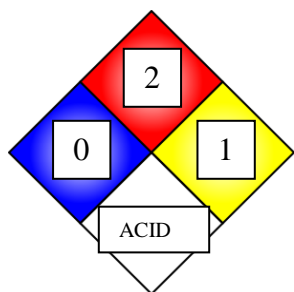
5) Firefighting Measures

Suitable Extinguishing Media: Water, Carbon Dioxide, Dry Chemical, and Foam Blanket

Unsuitable Extinguishing Media: N/A

Specific Hazards: Always wear self-contained breathing apparatus when fighting a chemical fire.

Special Protective Actions for Fire-Fighters: Carbon monoxide and Carbon dioxide gases liberated during combustion.



6) Accidental Release Measures

Personal Precautions: Be sure to use all necessary Personal Protective Equipment

Environmental Precautions: Avoid contamination of food, feed, waterway, or groundwater.

Methods and Materials for Containment and Clean-Up: For small spills: Cover the contaminated surface with sodium bicarbonate or a soda ash/flaked lime mixture (50-50). Mix and add water if necessary to form a slurry. Scoop up slurry and wash site with soda ash solution. Proper mixing procedures are essential. Trained personnel should conduct this procedure. Untrained personnel should be removed from the spill area. For large spills: Persons not wearing protective equipment should be excluded from area of spill until clean-up is completed. Stop spill at source. Dike to prevent spreading. Pump to salvage tank.

7) Handling and Storage

Precautions for Safe Handling: Do not contaminate food, feed, or natural water. Supplier is not responsible for disposition of this product. Do not reuse container. Maintain an eyewash station, and safety shower in product handling areas.

Conditions for Safe Storage: Keep container closed when not in use. Store in a cool, dry location.

8) Exposure Controls and Personal Protection

Appropriate Engineering Controls: Ventilation: Provide local exhaust ventilation where mist may be generated. Ensure compliance with applicable exposure limits.

Exposure Limits:

| Name (CAS-No.) | PEL | TWA | STEL |
|--------------------------|---|-----|------|
| Citric Acid (77-92-9) | OSHA 5 mg/m ³ ACGIH 5 mg/m ³ | N/A | N/A |

Personal Protective Equipment

| Eye/Face | Skin | Gloves |
|--|--|--|
|  |  |  |

Eye/Face: Safety glasses. Wear chemical safety goggles with face shield when appropriate.

Skin: Wear appropriate clothing.

Gloves: Wear appropriate chemical resistant gloves.

Protective Material Types: Neoprene, nitrile rubber, polyvinyl chloride, polyethylene.

9) Physical and Chemical Properties

Physical Form: Liquid

Appearance: Colorless to light pink

Odor: Detergent

pH: 3.5

Melting Point: Not available

Freezing Point: 15°F

Boiling Point: 212-220° F

Flash Point: 150°F

Evaporation Rate: < 1

Flammability: Combustible

Upper/Lower Flammability or explosive limits: Not applicable

Vapor Pressure: Not established

Vapor Density: > 1

Relative Density: Not established

Specific Gravity: 1.03

Solubility: 100%

Partition coefficient: Not available

Auto-Ignition Temperature: Not applicable

Decomposition Temperature: Not available

10) Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions: This product does not polymerize under normal storage and use conditions.

Conditions to Avoid: N/A

Materials to Avoid: Oxidizers, especially Chlorine Bleach

Hazardous Decomposition Products: Carbon monoxide and Carbon dioxide gases liberated during combustion.

11) Toxicological Information

Acute Toxicity:

| Test | Results | Basis |
|------|---------|-------|
| N/A | N/A | N/A |

Summary Comments: Mild acid burns and irritation may occur. If product comes into contact with skin or eyes, wash thoroughly with cool water.

Sub-chronic/Chronic Toxicity:

| Test | Results | Comments |
|------|---------|----------|
| N/A | N/A | N/A |

12) Ecological Information

Toxicity:

| Test | Results |
|------|---------|
| N/A | N/A |

Persistence and Degradability: Increased acidity in water will cause harm and death to aquatic organisms.

Bioaccumulative Potential: This material is believed not to bioaccumulate.

Mobility in Soil: Not available

Other Adverse Effects: Not available

13) Disposal Considerations

Disposal Method: Re-use or reprocess if possible. Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D002

14) Transport Information

UN Number: N/A

UN Proper Shipping Name: N/A

Transport Hazard Class (es): N/A

Packing Group: N/A

Environmental Hazard(s): N/A

Special Precautions for User: N/A

15) Regulatory Information

US Regulations:

CERCLA Sections 102a/103 Hazardous substances (40 CFR 302.4): N/A

SARA Title III, SARA Sections 311/312, Hazardous Categories (40 CFR 370.21):

Acute: Yes

Chronic: No

Fire: No

Reactive: No

Sudden Release: No

State Regulations:

California Proposition 65: This product is not listed.

Canadian Regulations:

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

WHMIS Classification: B

National Inventory Status: U.S. Inventory (TSCA): All the components of this substance are listed on or exempt from the inventory.

Canada Inventory (DSL/NDSL): All components of this product are listed on the DSL

16) Other Information

HMIS

| | |
|---|---------------------|
| 2 | FLAMMABILITY |
| 1 | HEALTH |
| 0 | REACTIVITY |
| C | Personal Protection |

Hazard Index

4-Severe

3-Serious

2-Moderate

1-Slight

0-Minimal















































Preparer: Ramsey Johnson

Approved By: Terry L. McAninch

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Personal Protective Index

| | | |
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| A  | E    | I    |
| B   | F     | J    |
| C    | G     | K     |
| D    | H      | X Ask your supervisor |
|  Safety Glasses |  Face Shield |  Splash Goggles |
|  Airline Hood or Mask |  Gloves |  Synthetic Apron |
|  Dust Respirator |  Vapor Respirator |  Dust + Vapor Respirator |
|  Full Suit |  Boots | |