Production

MATERIAL SAFETY DATA SHEET

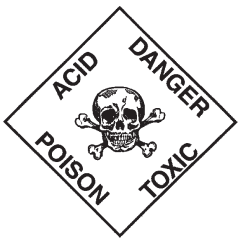
SECTION I. IDENTITY

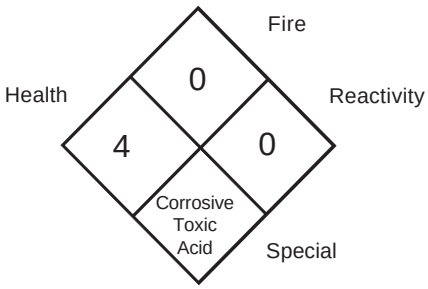
Date: March 11, 2003

Identity (As Used on Label and List):	Emergency Telephone Number:
Heavy Duty Spoke Wheel Cleaner	CHEMTREC: (800) 424-9300 CANUTEC: (613) 996-6666

DOT Proper Shipping Name:
Corrosive liquids, toxic, N.O.S., (Contains Ammonium Bifluoride (11-30%), Phosphoric Acid (1-10%)), 8, UN 2922, PG II

Manufacturer's Name:	Distributor's Name:
Production Car Care Products	
Address: 1000 East Channel Street	**Address:**
City - State - ZIP - Phone#: Stockton, CA 95205 209/943-7337	**City - State - ZIP - Phone#:**





Liquid and vapor can cause severe burns which may not be immediately painful or visible. Acid will penetrate skin and attack underlying tissues and bone. Seek medical attention immediately even if you suspect contact with product.

NEVER ALLOW THIS LIQUID TO CONTACT EYES, SKIN OR CLOTHING.
NEVER ALLOW THIS LIQUID TO CONTACT PAINTED SURFACES OR GLASS.

HAZARD RATING

4 = Extreme **3 = High**
2 = Moderate **1 = Slight**
0 = Insignificant

SECTION II. HAZARDOUS INGREDIENTS

N/L = Not Listed
N/R = Not Reported

Hazardous Components:	CAS No.	% Approx.	OSHA PEL	ACGIH TLV	NTP	IARC	OSHA 1910(Z)	EHS	SARA 313	LD50	LC50
Ammonium Bifloride	1341-49-7	11-30	2.5 mg/m³	2.5 mg/m³	N/L	N/L	N/R	Yes	Listed	Inhalation rat 1276 ppm/H	
Phosphoric Acid	7664-38-2	1-10	1mg/cum	1mg/cum	N/L	N/L	N/R	No	Listed	Skin rat >3160 mg/kg	Mysid Shrimp 96 Hour >100 mg/L

SECTION III. TYPICAL PHYSICAL VALUE/CHARACTERISTICS

N/D = Not determined
N/A = Not applicable

Boiling Point:	316.4°F	**Specific Gravity:** (H_2O = 1)	1.046
Vapor Pressure (mm Hg.):	N/D	**pH:**	2
Vapor Density:	N/D	**Evaporation Rate:** (Butyl Acetate =1)	N/D
Solubility in Water:	Soluble in water	**Melting Point:**	N/D
Appearance and Odor:	Thin brown liquid, with vinegar-acidic odor.		

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

N/D = Not determined
N/A = Not applicable

Flash Point: (Method Used)	Auto Ignition Temperature:	Flammability Limits:	LEL	UEL
None	N/D	N/D		N/D

Extinguishing Media:
Regular Foam, Carbon Dioxide or Dry Chemical.

Fire Fighting Procedures:
Use self-contained breathing apparatus

Unusual Fire and Explosion Hazards:
Closed container may explode when exposed to extreme heat. Product contains strong oxidizer.

SECTION V. REACTIVITY DATA

Stable:	X	Unstable:		Condition to Avoid:	Extreme heat

Hazardous Decomposition or By-products:
May produce fumes when heated to decompression. Fumes contain SO_2, SO_3, NH_3 and acidic fluorides

Incompatibility (Materials to Avoid):
Strong acids or alkali

Polymerization Hazard:	May Occur		Conditions to Avoid:
	Will Not Occur	X	None

SECTION VI. HEALTH HAZARD DATA

Routes of Entry:	Inhalation:	Skin:	Ingestion:
	Yes	Yes	Yes

Health Hazards (Acute and Chronic):
1) Eye: Can cause severe irritation, redness, tearing, blurred vision, corneal burns or conjunctivitis.
2) Skin: Can cause severe irritation and burns which may not be immediately painful or visible.
3) Breathing: Can cause irritation/burns in the nose, throat, respiratory system, nausea and headaches. May be fatal. **4) Ingestion:** Can cause severe mouth, throat and stomach burns, nausea, vomiting and diarrhea. May be fatal.

Additional Carcinogenicity Information (If Any): None Known

Signs and Symptoms of Exposure:
Irritation and burns to mouth, throat, lungs, stomach, cornea and skin

Medical Conditions That May Be Aggravated By Exposure: Poor General Health

Emergency and First Aid Procedures:
1) Eyes: Flush with water for at least 15 minutes, keeping eyelids apart and away from eyeballs during irrigation.
2) Ingestion: Do not induce vomiting. Drink large amounts of water to dilute.
3) Inhalation: Remove to fresh air. If breathing has stopped, start artificial respiration at once.
4) Skin: Remove all contaminated clothing. Wash with large amounts of water for a minimum of 15 minutes.
(CALL DOCTOR IMMEDIATELY FOR 1, 2, 3 and 4 even if you suspect contact with product.)

SECTION VII. EMERGENCY RESPONSE PROCEDURES

Container Size:	X	5 Gal. or Less	X	55 Gal. or Less	___	Bulk	____	Other: _____

Steps to be Taken If Material Is Released or Spilled

STEP 1. Human Health Protection:	STEP 2. Containment and Control:
Wear full protective clothing Avoid using in closed area	Neutralize with alkali such as soda ash or lime Absorb with sand or absorbent material
STEP 3. Decontamination:	**STEP 4. Hazardous Waste Packaging/Shipping Requirements:**
Prevent runoff to sewer or surface water	Follow Local, State and Federal Regulations

Waste Disposal Method:
In accordance with Local, State and Federal Regulations

SECTION VIII. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing: Keep product closed - Store away from heat or flame-Keep out of reach of children

Other Precautions: Any contact with this product requires immediate medical attention

SECTION IX. CONTROL MEASURES

N/D = Not determined
N/A = Not applicable

Respiratory Protection: Yes, NIOSH/MSHA approved respiratory equipment

Ventilation	Local Exhaust:	N/A	Special:	Use only in well ventilated area
	Mechanical:	Preferred	Other:	N/A

Protective Gloves:	Impervious Neoprene Rubber Gloves	Eye Protection:	Splash-proof safety goggles

Other Protective Clothing or Equipment: Impervious full protective clothing, rubber boots, etc.. Respiratory equipment

Work/Hygienic Practices: No contact lens, eating, drinking or smoking. Wash up after use.

Disclaimer of Liability

The information contained herein is based on data considered accurate. However, the information is provided without any warranty, expressed or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility for personal injury or property damage to vendees, users or third parties caused by the material. We also do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

Production

MATERIAL SAFETY DATA SHEET

SECTION X. HAZARDOUS INGREDIENT DEFINITION

A Hazardous Ingredient Is One Which Meets One Or More Of The Following Criteria:

1. It is listed in the annual registry of toxic effects of chemical substances, or is known to be toxic within the parameters of that registry, and is present at a level of 1% or greater of the composition, except that chemicals identified as carcinogens under 20 CFR 1919.1200 (d)(4) shall be listed if the concentrations are 0.1% or greater.

2. It has an OSHA established Permissible Exposure Limits or Ceiling Concentration (C) or an American Conference of Governmental Industrial Hygienists (ACGIH) TLV or C and by the nature of the product or its known use, is likely to become airborne.

3. It contributes to one or more of the following hazards to the product:
   - A. Any liquid having a flash point of not more than 141°F.
   - B. Causes full thickness destruction of human skin at the site of contact within a specified period of time. (DOT)
   - C. A material that may, generally be yielding oxygen, cause or enhance the combustion of other materials. (DOT)
   - D. Subject to hazardous polymerization.

Each hazardous ingredient should be listed by chemical, generic or proprietary name, its level in the product should be expressed as 1% or less, 1-10%, 11-30%, 31-50%,51-70%, or greater than 70%, or by other means if such information is proprietary. Recommended ACGIH or registry of toxic effects of chemical substances TLV or C values are only listed with appropriate notation, where OSHA values are not available.

Definitions:

OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
ACGIH: American Conference of Governmental Industrial Hygienists
TLV: Threshold Limit Value
NTP: National Toxicology Program
IARC: International Agency for Research or Cancer Monograph
EHS: Extremely Hazardous Substances
SARA: Superfund Amendments and Reauthorization Act
LD: Lethal Dose
LC: Lethal Concentration

Section VI Health Hazard Data

Health Hazards (Acute and Chronic)

The product contains ammonium bifluoride which can cause the following health hazards.

INHALATION

Mild exposure: Can irritate nose, throat and respiratory system. Severe exposure: Can cause nose and throat burns, lung inflammation and pulmonary edema. Also depletes calcium levels in the body if not promptly treated, resulting in death due to hypocalcemia.

INGESTION

Can cause severe mouth, throat and stomach burns. Can affect kidney function and be fatal if swallowed. Profound and possibly fatal hypocalcemia is likely to occur unless medical treatment is promptly initiated.

SKIN

Both liquid and vapor can cause severe burns which may not be immediately painful or visible. Ammonium bifluoride will penetrate skin and attack underlying tissues and bone. Large burns (over 25 square inches) may also cause hypocalcemia which, in rare instances, has been fatal. Solutions as dilute as 2% or lower may cause burns.

EYES

Both liquid an d vapor can cause irritation or corneal burns or conjunctivitis. Solutions as dilute as 2% or lower may cause burns.

UNUSUAL CHRONIC TOXICITY

Bone and joint changes in humans (Fluorosis).

EMERGENCY AND FIRST AID PROCEDURES

A. For Burns to the Body (Not the Eyes)

1. Remove the victim from the contaminated area and immediately place him under a safety shower or wash him with a water hose, whichever is available.

2. Remove all contaminated clothing.

3. Keep washing with large amounts of water for a minimum of 15 to 20 minutes.

4. Have someone make arrangements for medical attention while you continue flushing the affected area with water.

5. (a) If available, after thorough washing, the burned area should be immersed in a solution of 0.2% iced aqueous Hymine 1622 or 0.13% iced aqueous Zephiran Chloride. If immersion is not practical, towels should be soaked with one of the above solutions and used as a compress for the burned area. Ideally compresses should be changed every 2 minutes.

5. (b) An alternative treatment to 5 (a) is for a physician to inject sterile 10% aqueous calcium gluconate solution subcutaneously beneath, around, and in the burned area. Initially use no more than 0.5 cc per square centimeter and do not distort appearance of skin. If pain is not completely relieved, additional treatment is indicated

6. Seek medical attention as soon as possible for all burns regardless of how minor they may appear initially.

B. For the Eyes

1. Irrigate eyes for at least 15 minutes with copious quantities of water, keeping eyelids apart and away from eyeballs during irrigation.

2. Get competent medical attention immediately, preferably an eye specialist.

3. If a physician is not immediately available, apply one or two drops of 0.5% Pontocaine Hydrochloride solution followed by a second irrigation for 15 minutes. Use none of the solutions described for skin treatment. Use no oils or greases unless instructed to do so by a physician.

C. If Swallowed

1. Drink large amounts of water to dilute. Do not induce vomiting.

2. Several glasses of milk or several ounces of milk of magnesia for their soothing effect.

3. Take victim to a doctor.

D. First Aid for Inhalation

1. Move victim to fresh air. Keep him lying down, quiet and warm.

2. Get competent medical attention immediately.

3. If breathing has stopped, start artificial respiration at once.

4. Oxygen should be administered to a victim who is having difficulty breathing and by an authorized person only, until the victim is able to breathe easily by himself.

5. Do not give stimulants unless instructed to do so by a physician.

6. Victim should be under medical observation for at least 24 hours.