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## Material Safety Data Sheet

### 1. PRODUCT IDENTIFICATION

**Product Name:** NON-CHLORINATED BRAKE & PARTS CLEANER 14.5OZ AE  
**Item No:** 82220  
**Product Type:** Aerosol cleaner

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH TLV: TWA	OSHA PEL:
ACETONE 67-64-1	<60	500 ppm TWA; 750 ppm STEL	1000 ppm TWA; 2400 mg/m <sup>3</sup> TWA
HEPTANE 142-82-5	<20	400 ppm TWA; 500 ppm STEL	500 ppm TWA; 2000 mg/m <sup>3</sup> TWA
XYLENE 1330-20-7	<15	100 ppm TWA	100 ppm TWA; 435 mg/m <sup>3</sup> TWA
CARBON DIOXIDE 124-38-9	<5	5000 ppm TWA	5000 ppm TWA
ETHYL BENZENE 100-41-4	<5	100 ppm TWA	100 ppm TWA; 435 mg/m <sup>3</sup> TWA

### 3. HAZARDS IDENTIFICATION

**Toxicity:** May cause eye, skin and respiratory irritation. Intentional misuse by concentrating and inhaling the vapor may be harmful or fatal. Long term exposure to high concentrations of vapor may cause lung, liver or kidney damage. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as "solvent" or "painter's syndrome"). Symptoms include fatigue, concentration difficulties, anxiety, depression, rapid mood swings, and short-term memory loss.

**Primary Routes of Entry:** Eye and skin contact, ingestion, inhalation

**Signs and Symptoms of Exposure:** Excessive overexposure may cause giddiness, dizziness, headache, nausea and in extreme cases, unconsciousness and respiratory depression. May cause redness to eyes and irritation to nasal passages.

Component	Weight%	NTP	ACGIH Carcinogens	IARC
ACETONE 67-64-1	<60	Not known	A4 - Not Classifiable as a Human Carcinogen	Not known
XYLENE 1330-20-7	<15	male rat-no evidence; female rat-no evidence; male mice-no evidence; female mice-no evidence	A4 - Not Classifiable as a Human Carcinogen	Group 3: Monograph 71, 1999; Monograph 47, 1989
ETHYL BENZENE 100-41-4	<5	male rat-clear evidence; female rat-some evidence; male mice-some evidence; female mice-some evidence	A3 Confirmed animal carcinogen with unknown relevance to humans	Group 2B Monograph 77, 2000

**Medical Conditions Recognized as Being Aggravated by Exposure:** Heart disease, respiratory disorders, liver and kidney diseases, amenia, rhythm disorders of the heart.

### 4. FIRST AID MEASURES

**Ingestion:** Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Obtain medical attention.

**Skin Contact:** Wash off with soap and water. If skin irritation persists, call a physician.

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

## **5. FIRE FIGHTING MEASURES**

**Flash Point (°F/C):**

**Recommended Extinguishing Media:**

**Special Fire-Fighting Procedures:**

Extremely flammable aerosol per flame projection test

Carbon Dioxide, Dry Chemicals, Foam.

Firefighters should wear self-contained breathing apparatus. Keep containers cool. Use equipment or shielding required to protect against bursting or venting of containers. Water spray may be ineffective on flames but should be used to keep fire-exposed containers cool.

Oxides of carbon, Irritating vapors

**Hazardous Products of Combustion:**

**Unusual Fire/Explosion Hazards:**

Contents under pressure. Exposure to temperatures over 120 degrees F. may cause bursting or venting. Use equipment or shielding to protect personnel from bursting containers.

**Lower Explosive Limit:**

Not determined

**Upper Explosive Limit:**

Not determined

## **6. ACCIDENTAL RELEASE MEASURES**

**Spill Procedures:**

Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.

## **7. HANDLING AND STORAGE**

**Storage:**

Store away from heat, sparks or open flame. Do not store at temperatures above 120 degrees F.

Exposure to high temperatures may cause container to burst.

**Handling:**

Avoid contact with skin and eyes. Do not inhale vapors. Do not puncture or incinerate container. Do not use near heat, sparks or open flame. Extinguish all flames, pilot lights and heaters. Turn off stoves, electric tools and appliances, and other sources of ignition. Intentionally concentrating and inhaling the vapor may be harmful or fatal. Use only in a well ventilated area. Vapors may accumulate readily and may ignite explosively. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Eyes:**

Safety glasses

**Skin:**

Rubber or plastic gloves.

**Ventilation:**

General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.

**Respiratory Protection:**

An approved respirator (i.e. NIOSH, etc.) should be worn when exposures are expected to exceed the applicable limits.

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

**Appearance:**

Clear liquid

**Odor:**

SOLVENT

**Boiling Point:**

Not determined

**pH:**

Does not apply

**Solubility in Water:**

Nil

**Specific Gravity:**

0.75-0.80

**VOC Content(Wt.%):**

35.5% by weight

**Vapor Pressure:**

Not determined

**Vapor Density (Air=1):**

Heavier than air

**Evaporation Rate:**

>1 (butyl acetate = 1)

## **10. STABILITY AND REACTIVITY**

**Chemical Stability:**

Stable at normal conditions

**Hazardous Polymerization:**

WILL NOT OCCUR.

**Incompatibilities:**

Strong oxidizers

**Conditions to Avoid:**

Heat.

**Hazardous Products of Combustion:**

Oxides of carbon, Irritating vapors

## **11. TOXICOLOGICAL INFORMATION**

See Section 3

## **12. ECOLOGICAL INFORMATION**

No data available

**Product Name:** NON-CHLORINATED BRAKE & PARTS  
CLEANER 14.5OZ AE

**Item No:** 82220

### **13. DISPOSAL CONSIDERATIONS**

**Recommended Method of Disposal:** Disposal should be made in accordance with federal, state and local regulations. This container may be recycled in aerosol recycling centers. Before offering for recycling, empty the can by using the product according to the label. If recycling is not available, wrap the container and discard in the trash.

**US EPA Waste Number:** D001 as per 40CFR 261.21

### **14. TRANSPORTATION INFORMATION**

**DOT (49CFR 172)**

#### **Domestic Ground Transport**

**DOT Shipping Name:** CONSUMER COMMODITY  
**Hazard Class:** ORM-D  
**UN/ID Number:** None  
**Marine Pollutant:** None

#### **IATA**

**Proper Shipping Name:** Aerosols  
**Class or Division:** Class 2.1  
**UN/ID Number:** UN 1950

#### **IMDG**

**Proper Shipping:** Aerosols, Limited Quantity  
**Hazard Class:** Class 2.1  
**UN Number:** UN 1950

### **15. REGULATORY INFORMATION**

**SARA 313 Chemicals:** The following component(s) is listed as a SARA Section 313 Toxic Chemical.

XYLENE, ETHYL BENZENE

#### **CALIFORNIA PROP 65:**

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

#### **TSCA Inventory Status:**

**Listed on Inventory:** **YES** All components of this product are listed (or exempt) on the EPA TSCA inventory.

### **16. OTHER INFORMATION**

**Estimated NFPA Rating:** HEALTH 2, FLAMMABILITY 4, REACTIVITY 0.

**Estimated HMIS Classification:** HEALTH 2, FLAMMABILITY 4, PHYSICAL HAZARD 0

NFPA is a registered trademark of the National Fire Protection Assn.

HMIS is a registered trademark of the National Paint and Coatings Assn.

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