

MATERIAL SAFETY DATA SHEET

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EFFECTIVE DATE: 8/29/03

SUPERCEDES: / /

MANUFACTURED FOR: KEYSTONE AUTOMOTIVE INDUSTRIES
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SECTION 1: GENERAL INFORMATION

PRODUCT NAME: KEY EXTREME
PRODUCT ID: KEY278

NFPA 704

HAZARD RATING

4=Severe H=3

3=Serious F=0

2=Moderate R=1

1=Slight

0=Minimal

SECTION 1A: D.O.T. SHIPPING INFORMATION

Shipping Name: Corrosive Liquid, N.O.S.
(ammonium bifluoride) , 8 , PG III , UN1760 , RQ
Hazard Class: 8
UN/NA: UN1760
Packaging Group: III

EMERGENCY OVERVIEW

CORROSIVE MATERIAL. Eye or skin contact can produce severe irritation or burning of tissue, which may not be evident at first. Ingestion can cause severe damage to gastro-intestinal tract. Excessive inhalation of mists or vapors can cause irritation of respiratory tract.

This product is for use by professional car washes and detailers only and is NOT intended for home use.

SECTION 2: HAZARDOUS INGREDIENTS

#	INGRDIENT	CAS #	OSHA PEL (ppm or *mg.M ³) +=skin, c=ceiling	ACGIH TLV (ppm or *mg.M ³) +=skin, c=ceiling	WEIGHT %
1	Ammonium Bifluoride	1341-49-7	2.5*	2.5*	1-10
2	Proprietary Surfactant Blend	N/A	N/A	N/A	1-10
3					
4					
5					
6					
7					
8					

SECTION 5: FIRE AND EXPLOSION DATA

FLASH POINT: >212 F TEST: SETAFLASH (ASTM D3278)
EXPLOSIVE LIMITS: LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: Use water, foam, or carbon dioxide. Wear positive-pressure self-contained breathing apparatus, as toxic emissions are possible in a fire.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Heat above 350oC will result in decomposition releasing hydrogen, ammonia, and nitrogen oxide. These include corrosive and toxic fumes.
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with NIOSH-approved self-contained breathing apparatus and appropriate protective apparel.

SECTION 6: REACTIVITY DATA

STABILITY: Stable HAZARDOUS POLYMERIZATION: Does not occur.

INCOMPATIBILITY (MATERIALS TO AVOID): Contact with strong acids will release hydrogen fluoride. Contact with a strong alkali will release ammonia.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen Fluoride, Ammonia

SECTION 7: HEALTH HAZARD (ACUTE/CHRONIC)

CARCINOGENICITY: NTP: N IARC: N OSHA: N

EFFECTS OF OVEREXPOSURE:

Eye and skin exposure may cause irritation and burns. Product may be absorbed through the skin and produce signs of fluorosis such as: weight loss, brittleness of bones, anemia, weakness and stiffness of joints. Ingestion may cause severe irritation to gastrointestinal tract, nausea, vomiting, and abdominal pain. Death may occur from respiratory paralysis. Chronic exposure may lead to fluorosis. Internal bleeding may develop. Inhalation may cause severe irritation to mucous membranes and possibly pulmonary edema. Effects may not be immediately apparent, especially with dilute solutions.

SECTION 8: EMERGENCY AND FIRST AID

EYES: Flush with water for at least 15 minutes, until no further evidence of chemical remains. Continue irrigating with normal saline until the pH has returned to normal (30-60 minutes). Cover with sterile bandages. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN: Promptly remove contaminated clothing and shoes and launder before reuse. Store in containers away from heat, sparks, open flames, and incompatible chemicals. Repeated or prolonged use of clothing that has become contaminated with the product shall not be permitted. Wash exposed areas thoroughly with soap and water, showering if necessary. GET MEDICAL ATTENTION.

INHALATION: Remove to fresh air. Provide artificial respiration if breathing has stopped. Maintain airway and administer oxygen if available. Administration of oxygen should be done by qualified personnel. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: GET MEDICAL ATTENTION IMMEDIATELY! Do not induce vomiting. Possible aspiration hazard. Drink copious amounts of water, milk, or a solution of calcium gluconate.

SECTION 9: PERSONAL PROTECTIVE MEASURES

EYE PROTECTION: Avoid splashing. Wear chemical safety goggles. Contact lenses should not be worn.

PROTECTIVE GLOVES: Protective gloves constructed of natural rubber, neoprene, or nitrile rubber shall be worn while handling the product.

RESPIRATORY PROTECTION: Where exposure above the threshold through inhalation is likely, a NIOSH-approved air purifying respiratory protection equipment rated for acid gases is recommended.

VENTILATION: Local exhaust is generally recommended.

OTHER PROTECTIVE EQUIPMENT: Emergency eye wash, safety shower, protective apron, and boots as required by OSHA.

SECTION 10: SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Handle according to good manufacturing and warehousing practices.

All activities shall be conducted in a manner that insures that product mists or vapors are eliminated.

All equipment (personal protective equipment, work tables, containers) and the area used shall be cleaned at the end of the activity.

Wash hands immediately after use.

SPILLS AND LEAKS: CAUTION: Absorb and containerize. Wear protective clothing.

WASTE DISPOSAL: Dispose of in accordance with all Federal, State and Local Regulations. Product should be disposed of as a hazardous waste.

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