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Common Name: KAIPOW

Manufacturer: KAIVAC

MSDS Revision Date: 5/2/2006

Grainger Item Number(s): 2NV53

Manufacturer Model Number(s):

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TEST KAIPOW ON TARGET SURFACES FOR COMPATIBILITY

MATERIAL SAFETY DATA SHEET (PREPARED ACCORDING TO 29 CFR 1910, 2100)

DATE PREPARED: 5/2/06

SECTION 1 - PRODUCT IDENTIFICATION

MANUFACTURER: KAIVAC, INCORPORATED

ADDRESS:

401 S. THIRD ST.
HAMILTON, OH 45011

EMERGENCY PHONE:

INFOTRAC: 800-535-5053

INFORMATION PHONE: 800-287-1136

TRADE NAME: KAIPOW

PRODUCT TYPE: MILD ALKALINE CLEANING AGENT

SECTION 2 - INGREDIENTS

HAZARDOUS INGREDIENTS:

SODIUM HYDROXIDE	1310-73-2	1-10%
BIODEGRADABLE SURFACTANT	PROPRIETARY	1-10%

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >210 DEG. F

FLAMMABLE EXPLOSIVE LIMITS % BY VOLUME:

LOWER: N/A

UPPER: N/A

FIRE EXTINGUISHING MEDIA: USE ANY MEDIA SUITABLE FOR THE SURROUNDING FIRES

SPECIAL FIRE-FIGHTING PROCEDURES:

FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING INCLUDING A SELF
CONTAINED BREATHING APPARATUS. AVOID CONTACT WITH SKIN.

UNUSUAL FIRE AND EXPLOSION HAZARD:

THIS PRODUCT IS AN AQUEOUS SOLUTION WHICH WILL NOT BURN.

SECTION 4 - PHYSICAL DATA

BOILING POINT: >210 DEG. F

PH: 11.4

SPECIFIC GRAVITY (WATER=1): 1.05

APPEARANCE: GREEN

SOLUBILITY IN WATER: COMPLETE

ODOR: FLORAL

MELTING POINT: UNKNOWN

SECTION 5 - PRODUCT HEALTH HAZARD DATA

PRINCIPAL ROUTES OF ABSORPTION:

INHALATION:

INHALATION OF MISTS OF CONCENTRATED PRODUCT MAY CAUSE IRRITATION TO THE
RESPIRATORY TRACT.

INGESTION:

PRODUCT CONCENTRATE MAY CAUSE CORROSIVE DAMAGE TO THE GASTROINTESTINAL TRACT IF IT IS SWALLOWED.

SKIN: NONE EXPECTED.

EYE: MAY BE IRRITATING TO EYES.

POSSIBLE SYMPTOMS OF OVEREXPOSURE:
MAY BE IRRITATING TO EYES, RESPIRATORY SYSTEM, AND SKIN.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION - REMOVE TO FRESH AIR. ADMINISTER OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

INGESTION - DO NOT INDUCE VOMITING. DRINK IMMEDIATELY COPIOUS AMOUNTS OF COLD WATER. VOMITING OCCURS SPONTANEOUSLY, KEEP AIRWAY CLEAR. GIVE MORE WATER WHEN VOMITING STOPS. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN - FLUSH CONCENTRATE FROM SKIN WITH WATER THEN WASH CONTACT AREA WITH SOAP AND WATER. CONCENTRATE MAY DEFEAT SKIN ON REPEATED EXPOSURE LEADING TO DERMATITIS. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

EYE - FLUSH EYES WITH RUNNING WATER FOR 15 MINUTES LIFTING EYELIDS DURING THE PROCESS. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

SECTION 6 - REACTIVITY DATA

CHEMICAL STABILITY: STABLE UNDER NORMAL CONDITIONS.

STABILITY CONDITIONS TO AVOID:
MIXING OF CONCENTRATE WITH ACID OR INCOMPATIBLE MATERIALS MAY CAUSE SPLATTERING AND RELEASE HEAT. CONCENTRATE MAY REACT WITH SOME METALS FORMING FLAMMABLE HYDROGEN GAS. CARBON MONOXIDE GAS MAY FORM UPON CONTACT WITH REDUCING SUGARS OR FOOD AND BEVERAGE PRODUCTS IN ENCLOSED SPACES.

INCOMPATIBILITY (MATERIALS TO AVOID):
MAY REACT WITH ACIDS, HALOGENATED COMPOUNDS, PROLONGED CONTACT WITH ALUMINUM, BRASS, BRONZE, COPPER, LEAD, TIN, ZINC, OR OTHER ALKALI SENSITIVE METALS OR ALLOYS.

HAZARDOUS DECOMPOSITION PRODUCTS:
AT THERMAL DECOMPOSITION PRODUCTS: NONE KNOWN.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 7 - SPILL, LEAK OR DISPOSAL PROCEDURES

WASTE DISPOSAL METHOD:
BIODEGRADABLE PRODUCT. DISPOSE OF CONTAINER ACCORDING TO STATE, FEDERAL AND LOCAL LAWS.

PRECAUTIONS IN HANDLING AND STORING:
AVOID CONTACT OF CONCENTRATE WITH EYES, SKIN, AND CLOTHING. KEEP CONTAINER TIGHTLY CLOSED AND PROPERLY LABELED. DO NOT STORE IN ALUMINUM CONTAINERS

OR USE ON ALUMINUM SURFACES. AVOID BREATHING VAPORS OR MISTS OF CONCENTRATES OF THIS PRODUCT. USE PRODUCT WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.
DO NOT TAKE INTERNALLY.

OTHER PRECAUTIONS TO BE TAKEN: NONE KNOWN

SECTION 8 - SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS:

VENTILATION SHOULD EFFECTIVELY REMOVE AND PREVENT BUILDUP OF ANY VAPOR OR MIST GENERATED FROM THE HANDLING OF THIS PRODUCT.

PROTECTIVE EQUIPMENT:

EYE - WEAR CHEMICAL GOGGLES WHEN HANDLING CONCENTRATE OR DILUTED MATERIALS.

SKIN - WEAR IMPERVIOUS GLOVES WHEN HANDLING CONCENTRATE. GLOVES SHOULD BE TESTED IF HANDS BECOME IRRITATED WHEN USING DILUTED MATERIALS. GLOVES ARE RECOMMENDED EVEN WHEN USING DILUTED MATERIALS.

OTHER PROTECTIVE PRECAUTION:

EYEWASH FOUNTAINS AND EMERGENCY SHOWERS ARE RECOMMENDED WHERE CONCENTRATE IS USED. AVOID AEROSOL CREATING PRACTICES.

HMIS CODES:

HEALTH: 2

FLAMMABILITY: 0

REACTIVITY: 1