

BETZDEARBORN INC -- IPA 411 -- 6850-01-446-9518

===== Product Identification =====

Product ID:IPA 411  
MSDS Date:08/31/1999  
FSC:6850  
NIIN:01-446-9518  
Status Code:A  
MSDS Number: CKFKX  
=== Responsible Party ===  
Company Name:BETZDEARBORN INC  
Address:4636 SOMERTON RD  
City:TREVOSE  
State:PA  
ZIP:19053  
Country:US  
Info Phone Num:215-355-3300  
Emergency Phone Num:800-877-1940 (USA)  
CAGE:TO564  
=== Contractor I  
dentification ===  
Company Name:BETZDEARBORN, DIVIDION OF HERCULES INC.  
Address:4636 SOMERTON RD  
Box:City:TREVOSE  
State:PA  
ZIP:19053  
Country:US  
Phone:215-355-3300  
CAGE:TO564  
Company Name:MEHRTRONICS INC  
Address:134 E WILLIAMS AVE  
Box:City:BARRINGTON  
State:NJ  
ZIP:08007  
Country:US  
Phone:856-672-0663  
Contract Num:SP0450-00-M-D730  
CAGE:01NQ2

===== Composition/Information on Ingredients =====

Ingred Name:NITRILOTRIACETIC ACID TRISODIUM SALT  
CAS:5064-31-3  
RTECS #:MB8400000

Ingred N

ame:SODIUM TRIPOLYPHOSPHATE  
CAS:7758-29-4  
RTECS #:YK4570000  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT  
CAS:64-02-8  
RTECS #:AH5075000

Ingred Name:CARBONIC ACID DISODIUM SALT, COMPD. WITH HYDROGEN PEROXIDE  
(2:3)  
CAS:15630-89-4

Ingred Name:SODIUM CARBONATE  
CAS:497-19-8  
RTECS #:VZ4050000

===== Hazards Identification =====

LD50 LC50 Mixture:ORAL LD50 RAT ESTIMATED 1,600 MG/KG

Reports of Carcinogenic  
ity:NTP:YES IARC:YES

Health Hazards Acute and Chronic:TARGET ORGANS: PRODUCT OR PRODUCT  
COMPONENT MAY INCREASE THE RISK OF CANCER BASED ON LIMITED AMINAL  
DATA. ACUTE: SKIN: PRIMARY ROUTE OF EXPOSURE, MAY CAUSE SLIGHT  
IRRITATION TO THE SKIN. EYE: SEVERE I RRITANT TO THE EYES.  
RESPIRATORY: PRIMARY ROUTE OF EXPOSURE; DUSTS CAUSE IRRITATION TO  
THE UPPER RESPIRATORY TRACT. INGESTION: MAY CAUSE GASTROINTESTINAL  
IRRITATION.

Explanation of Carcinogenicity:NITRILOTRIACETIC ACID  
, TRISODIUM SALT IS

LISTED AS A POSSIBLE HUMAN CARCINOGEN (IARC-2B; NTP=ANTICIPATED).

Effects of Overexposure:CAUSES IRRITATION OF THE SKIN, EYES AND/OR  
RESPIRATORY SYSTEM.

Medical Cond Aggravated by Exposure:NOT KNOWN.

===== First Aid Measures =====

First Aid:SKIN: WASH THOROUGHLY WITH SOAP & WATER. REMOVE CONTAMINATED  
CLOTHING. GET MEDICAL ATTN IF IRRITATION DEVELOPS OR PERSISTS. EYE:  
REMOVE CONTACT LENSES. HOLD EYELIDS APART. IMMEDIATELY

FLUSH EYES

WITH PLENTY OF WATER FOR AT LEAST 15 MINS. GET IMMEDIATE MEDICAL ATTENTION. INHALATION: IF NASAL, THROAT OR LUNG IRRITATION DEVELOPS-REMOVE TO FRESH AIR & GET MEDICAL ATTENTION. INGESTION: DO NOT FEED ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSIVE VICTIM. DO NOT INDUCE VOMITING. IMMEDIATELY CONTACT PHYSICIAN. DILUTE CONTENTS OF STOMACH USING 3-4 GLASSES MILK OR WATER.

===== Fire Fighting Measures =====

Flash Point Method: PMCC  
Flash Point: >93.3C, 200.F  
Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, FOAM OR WATER  
Fire Fighting Procedures: FIRE FIGHTERS SHOULD WEAR POSITIVE PRESSURE SELF CONTAINED BREATHING APPARATUS (FULL FACE-PIECE TYPE)  
Unusual Fire/Explosion Hazard: NO DATA PROVIDED BY RESPONSIBLE PARTY.

===== Accidental Release Measures =====

Spill Release Procedures: VENTILATE AREA. USE SPECIFIED PROTECTIVE EQUIPMENT. CONTAIN AND ABSORB ON ABSORBENT MATERIAL. PLACE IN WASTE DISPOSAL CONTAINER. FLUSH AREA WITH WATER. WET AREA MAY BE SLIPPERY. SPREAD SAND/GRIT  
Neutralizing Agent: NO DATA PROVIDED BY RESPONSIBLE PARTY.

===== Handling and Storage =====

Handling and Storage Precautions: HANDLING: NORMAL CHEMICAL HANDLING.  
STORAGE: KEEP CONTAINERS CLOSED WHEN NOT IN USE. KEEP DRY. STORE BELOW 104 DEG F AND AWAY FROM ACIDS AND OXIDIZERS.  
Other Precautions: NO DATA PROVIDED BY RESPONSIBLE PARTY.

===== Exposure Controls/Personal Protection =====

Respiratory Protection: A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE. USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS. (SEE SUPPLEMENTAL BELOW).  
Ventilation: ADEQUATE VENTILATION.  
Protective Gloves: NEOPRENE GLOVES-WASH OFF AFTER EACH USE.

REPLACE AS  
NECESSARY.

Eye Protection:AIRTIGHT CHEMICAL GOGGLES.

Other Protective Equipment:USE PROTECTIVE EQUIPMENT IN ACCORDANCE WITH  
29CFR 1910 SUBPART 1.

Work Hygienic Practices:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Supplemental Safety and Health

RESPIRATORY PROTECTION CONTINUED: IF AIR-PURIFYING RESPIRATOR USE IS  
APPROPRIATE. USE A RESPIRATOR WITH DUST/MIST FILTERS.

===== Physical/Chemical Properties =====

HCC:N1

Vapor Pres:< 1.0 (MMHG)

Vapor Densi  
ty: