

MATERIAL SAFETY DATA SHEET CN10450

Product: DIVERSEY WYANDOTTE 560
Prepared By: _____ Date: 11-23-93
Last Revision Date: 09-00-87 For: _____

Manufacturer: NOVAMAX TECHNOLOGIES (U.S.) INC.

Address: 1615 Johnson Road, N.W. : 12801 Newburgh Road
Atlanta, Georgia 30318 : Livonia, Michigan 48150
(404) 799-1292 : (313) 464-4555
(800) 366-6682 :

Emergency Telephone:
Transportation (Chemtrec)----- (800) 424-9300
Medical (Rocky Mountain Poison Control) - (800) 726-3737

SECTION I BASIC INFORMATION

Product Name: DIVERSEY WYANDOTTE 560
Description: ALUMINUM DEOXIDIZER
Date Revised: NONE

HMIS INFORMATION: Health- 3 Flammability- 0
Reactivity- 0 Personal Protective Equipment- D
HAZARD INDEX: 4= Severe 3= Serious 2= Moderate 1= Slight 0= Least

D= Face Shield, Gloves, & Synthetic Apron

SECTION II HAZARDOUS INGREDIENTS

FERRIC SULFATE
01 CAS# 10028-22-5
% BY WT: 15 - 20

EXPOSURE LIMIT:
ACGIH TLV/TWA: 1.0 MG/M3 (AS FE)
OSHA PEL/TWA: 1.0 MG/M3 (AS FE)

OTHER LIMITS:
CERCLA: 1000 #

HYDROFLUOSILICIC ACID
02 FLUOSILICIC ACID CAS# 16961-83-4
% BY WT: < 5

EXPOSURE LIMIT:
ACGIH TLV/TWA: 2.5 MG/M3 (AS F)
OSHA PEL/TWA: 2.5 MG/M3 (AS F)

OTHER LIMITS:
CORROSIVE-DOT

SECTION II HAZARDOUS INGREDIENTS

SULFURIC ACID

03

CASH 7664-93-9

% BY WT: 20 - 25

EXPOSURE LIMIT:

ACGIH TLV/TWA: 1 MG/M3

ACGIH TLV/STEL: 3 MG/M3

OSHA PEL/TWA: 1 MG/M3

OTHER LIMITS:

CERCLA: 1000# EHS RQ: 1000# RCRA: D002 NFPA: 3,0,2 HMIS: 3,0,2

NITRIC ACID

04

CASH 7697-37-2

% BY WT: 10 - 15

EXPOSURE LIMIT:

ACGIH TLV/TWA: 2 PPM, 5.2 MG/M3

ACGIH TLV/STEL: 4 PPM, 10 MG/M3

OSHA PEL/TWA: 2 PPM, 5.2 MG/M3

OTHER LIMITS:

NFPA: 3,0,0 CERCLA: 1000#

This product contains no reported carcinogens or suspected carcinogens.

SECTION III PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Low- 228.0 F
Vapor Pressure: 20.40 MMHG
Vapor Density: Heavier Than Air
Evaporation Rate: Faster than Butyl Acetate
Specific Gravity: 1.34
% Volatile by Volume: N/A
% Volatile by Weight: N/A
UOC: N/A
Physical State: LIQUID
Appearance: CLEAR, DARK YELLOW
Odor: SHARP PUNGENT
% Conc. of pH reading: 1.0
pH: 1.0
Freezing Point, Deg F: 8.0 -
Water Solubility: COMPLETE

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: N/A
Upper flammability Limit: N/A

Lower Flammability Limit: N/A
Auto Ignition Temperature: N/A

Dot Information: CORROSIVE LIQUIDS, N.O.S., B, UN 1760, PG II
(SULFURIC ACID, NITRIC ACID)

EXTINGUISHING MEDIA:

Use WATER or WATER FOG.

SECTION V FIRST AID MEASURES

-EYE CONTACT: CONTACT PHYSICIAN AND START TREATMENT IMMEDIATELY.
IMMEDIATELY flush the eyes for at least 15 minutes with large amounts of gentle, flowing water. Hold the eyelids open and away from the eyes during irrigation to allow thorough flushing of the eyes. DO NOT STOP WASHING EYES EVEN IF YOU THINK THEY ARE COMPLETELY RINSED. DO NOT PUT ANY TREATMENT INTO EYES UNLESS INSTRUCTED TO DO SO BY A PHYSICIAN. Take victim to a doctor, preferably an eye specialist, as soon as possible after the 15 minute eye rinse. Ice water compresses should be applied to the eyes while transporting victim to the doctor. Do not apply any other medicine unless instructed to do so by a physician. RUBBING OF THE EYES MUST BE AVOIDED.

-SKIN CONTACT: CONTACT PHYSICIAN AND START TREATMENT IMMEDIATELY.
NOTE: FOR SKIN CONTACT OR SUSPECTED CONTACT:
Move victim immediately under safety shower or other water source and flush affected areas thoroughly with large amounts of tempered running water. Speed of washing off the acid is of primary importance.
Remove ALL contaminated clothing while continuing flushing with flowing water. Continue washing for at least 15 minutes.
As soon as possible after the full 15 minutes of washing, begin a thorough soaking of the area in one of the following solutions: (NOTE: If these solutions are not available, continue washing in running water until a physician arrives.)
Iced, 0.2% water solution (1:500) of HYAMINE 1622 Benzethonium Chloride or
Iced, 0.13% water solution (1:750) of ZEPHIRINE Benzalkonium Chloride.
GET TREATMENT BY A PHYSICIAN AS SOON AS POSSIBLE.

-INHALATION: CONTACT PHYSICIAN AND START TREATMENT IMMEDIATELY. Move victim to fresh air. If breathing has stopped, start artificial respiration immediately. Oxygen should be administered as soon as possible by a trained attendant, particularly if breathing is difficult. Continue oxygen while awaiting medical attention unless instructed otherwise by a physician. Vapor exposure can cause skin and mucous membrane burns as well as damage to pulmonary tissue. Vapor burns are treated the same as liquid and mucous membrane burns as well as damage to pulmonary hydrofluoric acid burns.

-INGESTION: CONTACT PHYSICIAN AND START TREATMENT IMMEDIATELY. Have victim drink large quantities of water as quickly as possible to dilute the product. DO NOT induce vomiting. Do not give emetics or baking soda. Never give anything by mouth to an unconscious person. Give several glasses of milk or several ounces of milk of magnesia for their soothing effect. The calcium or magnesium in these compounds also acts as an antidote. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION VI FIRE FIGHTING MEASURES

SPECIAL FIRE FIGHTING PROCEDURES:

Do not enter confined fire space without proper protective equipment including a NIOSH approved self-contained breathing apparatus. Full water resistant suit including waterproof boots, pants, coat and full face shield should be worn to prevent contact with this product and its solutions.

Solutions and fumes released by this product are corrosive to skin, eyes and mucous membranes.

UNUSUAL FIRE AND EXPLOSION HAZARD:

Based on the presence of some components solutions of this product react with metals to produce hydrogen gas which is explosive.

SECTION VII ACCIDENTAL RELEASE MEASURES

NOTE: No clean-up should be attempted until clean-up personnel are equipped with protective gear to prevent any contact with product or its vapors.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

SMALL SPILLS: Absorb on clay, vermiculite or other inert absorbent or neutralize with sodium bicarbonate or sodium carbonate and collect for disposal. Pick up neutralized solution using plastic pump or vacuum truck and store in leak-proof polyethylene containers until product can be disposed of. Flush area twice with water to remove any remaining residue. Store wash solution in polyethylene containers for disposal.

LARGE SPILLS: Neutralize with sodium bicarbonate or sodium carbonate and collect for disposal. Pick up neutralized solution using plastic pump or vacuum truck and store in leak-proof polyethylene containers until product can be disposed of. Flush area twice with water to remove any remaining residue. Store wash solution in polyethylene containers for disposal.

SECTION VIII HANDLING AND STORAGE

HANDLING AND STORING PRECAUTIONS:

Keep container tightly closed when not in use.

Store in cool, dry area away from alkaline materials.

Other Precautions: KEEP THIS AND ALL CHEMICALS OUT OF REACH OF CHILDREN

SECTION IX EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Use NIOSH approved respirator with mist or spray acidic cartridge when mists or vapors are present.

VENTILATION:

Local Exhaust: Use in spray areas or where fumes are released.
Mechanical: 50-100 cfm to maintain TLV in high mist or spray areas.

PROTECTIVE GLOVES:

Use rubber or neoprene.

EYE PRECAUTION:

Wear chemical goggles or full face shield.
Use waterproof apron or suit to prevent contact with skin or clothing.
SAFETY SHOWER AND EYE WASH STATION SHOULD BE LOCATED IN AREA OF USE.

WORK/HYGIENIC PRACTICES:

Wash product from clothes and skin. Use good housekeeping practices.

SECTION X EFFECTS OF EXPOSURE

PRIMARY ROUTES OF EXPOSURE:

Inhalation
Skin
Eyes
Ingestion

HEALTH HAZARDS (ACUTE AND CHRONIC EFFECTS OF EXPOSURE):

EXTREMELY CORROSIVE to skin, eyes and mucous membranes.
Ingestion may be fatal if not treated by a physician immediately.

SIGNS AND SYMPTOMS OF EXPOSURE:

-INHALATION:

May cause moderate to severe irritation of respiratory system with possible difficulty in breathing.

-INGESTION:

Small amounts may cause extreme gastric pain, diarrhea and vomiting.
Large amounts may cause central nervous system effects.

-SKIN:

Causes severe irritation or burns resulting in redness, pain and possible tissue damage.
NOTE: Extreme pain could result but not be evident for up to 24 hours.
TREAT EVERY EXPOSURE.

-EYE:

Causes severe irritation, burns with inflammation and pain. Damage may not be reversible.

SECTION XI STABILITY AND REACTIVITY

CONDITIONS CONTRIBUTING TO INSTABILITY: Stable under normal conditions.

INCOMPATIBILITY (Materials to Avoid):

Do not mix with strong alkalies or oxidizers.

Do not mix with chlorinated products as irritating or toxic gases

may be released.

HAZARDOUS PRODUCTS OF DECOMPOSITION:

Heat. Releases toxic nitrogen dioxide or hydrogen gas if mixed with copper, brass, iron or heavy metals.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION XII TOXICOLOGICAL INFORMATION

Carcinogenicity:

NTP? Ingredients not on list.
IARC Monographs? Ingredients not on list.
OSHA Regulated? See SECTION II above for exposure limits of hazardous ingredients.

SECTION XIII ECOLOGICAL INFORMATION

Wastes of this product are considered hazardous and must not be disposed of in streams, lakes or ground water.

SECTION XIV DISPOSAL CONSIDERATIONS

Unneutralized solutions may be considered corrosive and should be processed through Federal, State and locally approved hazardous waste facility.

SECTION XV TRANSPORT INFORMATION

**** SEE SECTION IV ****

SECTION XVII SECTION 313 TOXIC CHEMICALS

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

SULFURIC ACID

CAS#: 7664-93-9 Weight %: 20 - 25

NITRIC ACID

CAS#: 7697-37-2 Weight %: 10 - 15

THE INFORMATION PRESENTED HEREIN IS BASED ON AVAILABLE DATA FROM RELIABLE SOURCES AND IS CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF. HOWEVER, WE MAKE NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THE

DATA OR THE RESULTS TO BE OBTAINED FROM THE USE OF ANY MATERIAL OR ANY PRODUCT. NOTHING HEREIN MAY BE CONSTRUED AS RECOMMENDING ANY PRACTICE OR ANY PRODUCT IN VIOLATION OF ANY PATENT OR IN VIOLATION OF ANY LAW OR REGULATIONS. THE USER IS SOLELY RESPONSIBLE FOR DETERMINING THE SUITABILITY OF ANY MATERIAL OR PRODUCT FOR A SPECIFIC PURPOSE AND FOR ADOPTING ANY APPROPRIATE SAFETY PRECAUTIONS. WE DISCLAIM ALL LIABILITY FOR INJURY OR DAMAGE STEMMING FROM ANY IMPROPER USE OF THE MATERIAL OR PRODUCT DESCRIBED HEREIN.
