FEB 04 1982 DPM 5116-2 NP-2

mfsa

Metal Finishing Suppliers' Association, Inc.

PRODUCT INFORMATION FORM

Product: Enstrip NP-2

Form ( ) Lump ( ) Granular ( ) Powder ( ) Dusty Powder ( ) Slurry (✓) Liquid

Specific Gravity 1.01@70°F 8.41#/gal

Hygroscopic —

pH 13.3

Water Soluble ✓

Viscosity ?

Oxidant —

Boiling Point 231°F

Reducer —

Freezing Point <-40°F

Odor ammoniacal (strong)

Vapor Pressure (25° C) ~20mm Hg

Other

Shipping, Storage & Handling:

Shipping Container glass; polylined Fiber

Size(s) 5; 15; 55

Repackage in glass/steel

ICC Label(s) None

House Label(s) None

Storage Temperature/Conditions 110° F (Max.) <-40°F (Min.)

(✓) Indoor ( ) Outdoor ( ) Dry ( ) Wet (✓) Keep from freezing
( ) Keep in "hot" room (110° F)

Shelf Life 1yr

Avoid ( ) Light ( ) Shock ( ) Air ( ) Moisture (✓) Freezing

Corrosive to Container No

Disposal Flush with water
(in case of breakage, Leakage, spillage)

Personnel Protection When Handling:

(✓) Goggles ( ) Face Shield (✓) Respirator ( ) Protective Ointment
may be required under poor/general ventilation conditions

Protective Clothing

( ) Apron (✓) Rubber Gloves ( ) Jacket (✓) Boots ( ) Rubber Suit

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PRODUCT INFORMATION FORM

Storage Hazards:

Flash Point (Open Cup) — (Closed Cup) —

Fire Point — Autoignition Point —

Explosibility: Temperature — Min.% Max.%

Effect of:

Heating Loss of volatiles Volatiles Ammonia; Amines

Pressure (container heated to 130°F for 2 days) Bottlecap

Pressure (container opened after 2 days at 130°F) Rapid loss of ammonia & amines

Light — Spark —

Shock — Evaporation Steady loss of active ingredients

Aging Gradual loss of volatile constituents Freezing ~~Crystallization~~ —

Avoid Contact with:

Air Reducers

Moisture Acids ✓

Oxidizers (strong) ✓ Alkalis

Others

Exothermic Reactions: Acids oxidizers

Violent Reactions with: None

Decomposition Products in a Fire: NH_3; N_2; slight possibility of toxic nitrogen oxides

Fire Control Methods: Water

NP-2

PRODUCT INFORMATION FORM

Use:

Concentration 1 part vol NP1 + 1 part vol NP-2 + 3 parts vol H_2O Temperature 70-75 appreciable decomposition above 140°F

pH ~11.2 Other

Exhaust Yes (x) not direct Keep covered with filter or not in use No ( )

Disposal Flush with water Caution! some localities may be require destruction of fumes
(in case of leakage, spillage or dumping)

Tanks & Storage Containers steel

Pumps, Filters steel

Toxicology:

Toxicity - by ingestion

( ) Practically non toxic (Lethan Dose above 1 quart).

( ) Slightly toxic (L.D. between 1 pint and 1 quart).

( ) Moderately toxic (L.D. between 1 ounce and 1 pint or 1 pound).

(✓) Very toxic (L.D. between 1 teaspoonful and 1 ounce).

( ) Extremely toxic (L.D. between 7 drops and 1 teaspoonful).

( ) Super toxic (a taste, less than 7 drops).

( ) Not known, but probably would be rated as:

( ) Special Precautions.

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PRODUCT INFORMATION FORM

Toxicology:

Toxicity - by inhalation

( ) Practically non-toxic

(✓) Slightly toxic, low hazard for single or repeated exposures.

( ) Moderately toxic, moderate hazard for single or repeated exposures.

( ) Highly toxic, severe hazard for single or repeated exposures.

(✓) Maximum atmospheric concentration (8-hour, daily exposures) recommended by ACGIH for dusts, mists, fumes, vapors: 30mg/m³ as vapor of principal constituent

(✓) Nature of principal toxic effects: irritation to mucous membranes

( ) Information not available, but toxicity is presumed to be:

( ) Special Precautions:

Toxicity or Injury - by skin contact

( ) No Systemic effects via skin absorption.

( ) Possible systemic effects via skin absorption.

( ) Severe systemic effects via skin absorption.

( ) Non-irritating to skin or mucous membranes.

( ) May cause skin or mucous membrane irritation.

(✓) Rapidly damaging to skin or mucous membranes.

(✓) Special precautions. Prevent skin contact.

PRODUCT INFORMATION FORM

Tissues or Organs Affected:

(✓) Skin
(✓) Mucous membranes
(✓) Eyes
( ) Nose & Throat
( ) Oral & Dental
( ) Ears
( ) Brain
( ) Lungs
( ) Gastrointestinal
( ) Liver
( ) Genito urinary
( ) Muscles
( ) Bones
( ) Respiratory
( ) Blood
( ) Cardiovascular
( ) Nervous System

Emergency Medical Treatment

Antidote:

External

(✓) Flush area with water.
( ) Flush area with dilute acid.
( ) Flush area with dilute alkali.
( ) Other.
( ) Report to doctor.

Eyes

(✓) Wash with much water.
(✓) Report to doctor

NP-2

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Antidote:

Internal

( ) Induce vomiting

( ) Give emetics

(✓) Vinegar water

( ) Sodium Bicarbonate

( ) Egg Whites

( ) Milk of magnesia, lime water, aluminum hydroxide gel.

(✓) Drink much water

( ) Other

(✓) Report to doctor

The information given herein by our Corporation concerns only the product as sold by us, and may not be applicable to the product when present in a composition or mixture resulting from its use by the customer, or prepared by the customer or for the customer by a party other than our Corporation.

Date: Dec. 14, 1971

Corporation Enthone Inc.

Signed by Robt F. Smith

Title Assistant to Technical Director

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