

MATERIAL SAFETY DATA SHEET

OSHA-MEETS 29 CFR 1910.1200 STANDARDS

HMIS HAZARD RATINGS



HEALTH	0	0 = INSIGNIFICANT	3 = HIGH
FLAMMABILITY	0	1 = SLIGHT	4 = EXTREME
REACTIVITY	0	2 = MODERATE	

TRANSPORTATION INFORMATION

PROPER SHIPPING NAME : Not regulated
 HAZARD CLASS / PKG GRP : None REF: Not applicable
 IDENTIFICATION NUMBER : None LABEL: NONE REQUIRED

SECTION 1 – PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST)
CONCENTRATE # 373

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MANUFACTURER'S NAME
 Practical Systems, Inc.

EMERGENCY TELEPHONE NUMBER
 (727) 376-7900

ADDRESS (NUMBER, STREET, P.O. BOX)
 11617 Prospect Road
 (CITY, STATE AND ZIP CODE)
 Odessa, Florida 33556

TELEPHONE NUMBER FOR INFORMATION
 (727) 376-7900
 DATE PREPARED: May 11, 1997
 SUPERCEDES: February 9, 1994

SECTION 2 – HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))	CAS#	% (OPTIONAL)	ACGIH TWA PPM	ACGIH STEL MG/M ³	SARA TITLE III	RQ LBS
Aluminum oxide	68389-42-4			10		
Particulates not otherwise regulated						
total dust				10		
respirable fraction				5		

SECTION 3 – HEALTH HAZARD DATA

ROUTES OF ENTRY – SIGNS AND SYMPTOMS OF EXPOSURE

EMERGENCY AND FIRST AID PROCEDURES

<p>INHALATION: Breathing airborne particles or dust from spraying, sanding, grinding, etc. may cause irritation to respiratory tract.</p>	<p>Remove victim to fresh air, if symptoms persist, seek medical attention.</p>
<p>SKIN: None expected, however, prolonged contact may cause irritation.</p>	<p>Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.</p>
<p>EYES: Contact with eyes may cause irritation.</p>	<p>Flush eyes with water for 15 minutes; if irritation persists, seek medical attention.</p>
<p>INGESTION: May cause gastric distress, vomiting and diarrhea. cause gastric distress, stomach pains and vomiting.</p>	<p>Give two glasses of water for dilution; DO NOT induce vomiting; seek medical attention.</p>

HEALTH HAZARDS (ACUTE AND CHRONIC): Acute effects are possible irritation and discomfort; no known chronic effects have been established; contains substances which are considered nuisance dusts which require a NIOSH approved respirator when airborne particulate exceeds maximum allowable limit.

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting skin, eye, or respiratory disorders may become aggravated through prolonged exposure.

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SECTION 4 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED)

Non-flammable

FLAMMABLE LIMITS

LEL:

UEL:

Not applicable

Not applicable

EXTINGUISHING MEDIA

CO₂; water; water fog; dry chemical; chemical foam

SPECIAL FIRE FIGHTING PROCEDURES

None

UNUSUAL FIRE AND EXPLOSION HAZARDS

Metal oxides, such as aluminum oxide, may ignite readily if allowed to reach high levels of dust concentration in the air.

SECTION 5 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills - wash to sanitary sewer with plenty of water.

Large spills - Recover and segregate product for reuse; shovel product into approved container for disposal.

SECTION 6 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Keep this and other chemicals out of reach of children; minimize body contact with this product as well as all chemicals in general.

SECTION 7 - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH approved respirator designed to remove airborne particulate present in excess of maximum allowable concentrations due to operations such as spraying, sanding, buffing, etc.

VENTILATION

LOCAL EXHAUST: Recommended

MECHANICAL (GENERAL): Yes

SPECIAL: None

OTHER: None

PROTECTIVE GLOVES: Neoprene or rubber

EYE PROTECTION: Goggles with side shields

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyebath nearby

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

SECTION 8 - PHYSICAL / CHEMICAL PROPERTIES

BOILING POINT

215 ° F (as a slurry)

SPECIFIC GRAVITY (WATER = 1)

1.3

VAPOR PRESSURE (MM HG)

17 mm @20° C

pH

Not specified

VAPOR DENSITY (AIR = 1)

< 1

EVAPORATION RATE (WATER = 1)

< 1

SOLUBILITY IN WATER

Forms a slurry

% VOLATILE (BY WT)

Not specified (volatile fraction is water)

APPEARANCE AND ODOR

White aqueous slurry, no discernible odor

MELTING POINT

2000 ° C

SECTION 9 - STABILITY AND REACTIVITY

STABILITY

UNSTABLE:

STABLE: XXX

CONDITIONS TO AVOID:

Extreme temperatures

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Thermal decomposition may yield CO; CO₂; metal oxides

HAZARDOUS POLYMERIZATION

MAY OCCUR:

WILL NOT OCCUR: XXX

CONDITIONS TO AVOID:

None

SECTION 10 - DISPOSAL CONSIDERATIONSWASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. Products classified as *non-hazardous* may become *hazardous waste* upon contact with other products. Refer to "40 CFR Protection of Environment Parts 260-299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.

The information contained herein is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

Form revised 01 / 94