

Material Safety Data Sheet

MSDS # 2002-02

HEALTH FIRE REACTIVITY
0 0 0

Hazard Ratings: 0 Least
2 Moderate
4 Extreme

NOTE: For acute and chronic health effects, refer to Section III.

SECTION I — NAME

PRODUCT: CatTrap® 10,20,30,40,50,65,80
CHEMICAL NAME: Alumina
CHEMICAL FAMILY: Aluminum Oxide
USE: Bed Grading Material

SECTION II-A — PRODUCT / INGREDIENT

<u>NO.</u>	<u>COMPOSITION</u>	<u>CAS NUMBER</u>	<u>PERCENT</u>
1	Aluminum Oxide (Alumina) Al ₂ O ₃	1344-28-1	80-90%
2	Silica, amorphous (non-crystalline)	7631-86-9	10-20%

SECTION II-B — SARA TITLE III INFORMATION

<u>NO.</u>	<u>EHS RQ (lbs)</u>	<u>EHS TPQ (lbs)</u>	<u>311/312 CATEGORIES</u>	<u>SECTION 313</u>
	0	0	0	0

- 1 NON-REPORTABLE QUANTITY of extremely hazardous substance under Section 302.
- 2 THRESHOLD PLANNING QUANTITY of extremely hazardous substance under Section 302.
- 3 HAZARD CATEGORY for Section 311/312 reporting:
Health H-1 = Immediate (Acute) Health Hazard H-2 = Delayed (Chronic) Health Hazard
Physical P-3 = Fire Hazard P-4 = Sudden Release Of Pressure Hazard P-5 = Reactive Hazard
- 4 TOXIC CHEMICAL under Section 313, category as required under Section 313 (40 CFR 372.4).

SECTION II-C — ACUTE TOXICITY DATA

<u>NO.</u>	<u>ACUTE ORAL LD50</u> <u>(mg / kg)</u>	<u>ACUTE DERMAL LD50</u> <u>(mg / kg)</u>	<u>ACUTE INHALATION LC50</u> <u>(mg / M³)</u>
P	Not Available	Not Available	Not Available

SECTION III — HEALTH INFORMATION

The health effects noted are consistent with requirements under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

EYES: Irrigate eyes with clean water for 15 minutes. Examine for physical presence of particles. See a physician if irritation persists.

SKIN: Wash with soap and water.

INGESTION: See a physician

INHALATION: N/A

SECTION IV — OCCUPATIONAL EXPOSURE LIMITS

<u>NO.</u>	<u>OSHA TRANSITIONAL</u> <u>LIMIT / PEL</u> <u>(mg / M³)</u>	<u>FINAL RULE</u> <u>LIMIT / TWA *</u> <u>(mg / M³)</u>	<u>ACGIH</u> <u>TLV / TWA</u> <u>(mg / M³)</u>	<u>TLV / STEL</u> <u>(mg / M³)</u>	<u>OTHER</u>
P	Not Available				

* Compliance with transitional limits required by Administrative or Engineering Controls only, until 12/31/92.

SECTION V — EMERGENCY AND FIRST AIR PROCEDURES

EYES: Irrigate eyes with clean water for 15 minutes. Examine for physical presence of particles. See a physician if irritation persists.

SKIN: Wash with soap and water.

INGESTION: See a physician

INHALATION: N/A

SECTION VI — SUPPLEMENTAL HEALTH INFORMATION

None

SECTION VII — PHYSICAL DATA

BOILING POINT (°F):	N/A	SPECIFIC GRAVITY:	1.2 to 1.47 (H ₂ O = 1)
MELTING POINT (°F):	Approx ~3,700		
EVAPORATION RATE:	N/A		
VAPOR PRESSURE:	N/A	SOLUBILITY:	Negligible (in water)
BULK DENSITY:	Approx ~ 40 lbs/ft ³		
APPEARANCE / ODOR:	White discs, odorless.		

SECTION VIII — FIRE AND EXPLOSION HAZARDS

FLASH POINT METHOD:	FLAMMABLE LIMITS / % VOLUME IN AIR:
Will not burn (see below).	Lower: N/A Upper: N/A

EXTINGUISHING MEDIA:

Not expected to burn under normal conditions.
Use an extinguishing media appropriate for the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

N/A, will not burn.

SECTION IX — REACTIVITY

STABILITY: Stable	HAZARDOUS POLYMERIZATION: Will not occur.
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SECTION X — EMPLOYEE PROTECTION

- RESPIRATORY:** For dust concentrations above exposure limits, use a NIOSH/MSHA approved mask for toxic dust, supplied air, or self-contained respirator.
- EYES:** Safety glasses with side shields or chemical-type goggles should be worn to prevent injury if flying particles or high dust particulate concentrations are present. Contact lenses should not be worn.
- SKIN:** When skin contact results from normal use, practice good personal hygiene. Wash hands and other exposed areas with soap and water before eating, drinking, or smoking.

SECTION XI — ENVIRONMENTAL PROTECTION

Dispose or recycle in accordance with all applicable laws and regulations.

SECTION XII — SPECIAL PRECAUTIONS

None

SECTION XIII — TRANSPORTATION REQUIREMENTS

Department of Transportation classification: Not Hazardous, by DOT regulations.

SECTION XIV — OTHER REGULATORY CONTROLS

The components of this product are listed on the EPA/TSCA inventory of special substances.

SECTION XV — SUMMARY OF REVISIONS

<u>MSDS NUMBER</u>	<u>DATE</u>	<u>NATURE OF REVISION(S)</u>
2002	July 27, 1999	Original Issue
2002-02	February 3, 2004	Addition of additional product names

Review Date: February 3, 2004

John N. Glover
President
Crystaphase Products, Inc.

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