

FRUSTRATIVE

FEB-22-'96 THU 14:30 ID:3R MINERAL/MFG CO
04/10/85 11:25

TEL NO:1-312-895-8564

#121 P01

TSN

002

Material Safety Data Sheet

260-3

25065-1039

TSN MSDS No. 004

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SECTION I

MATERIAL NAME AND TRADE NAMES:

HMIS

Lionite, Aluminum Oxide: ←
SS, GF, SSK, GFK, SSC, GFC, A/O, AS, AST;
Lionblast: LB; Lundite: Futsure; Superfine A/O;
MT-2 Fines; AOF; DCF A/O; DCFT; CF #2 A/O

Health	1
Flam.	0
React.	0
P.P.E.	E

MANUFACTURER:

Treibacher Schleifmittel Corp.
2000 College Avenue
MPO Box 1438
Niagara Falls, NY 14302

DATE PREPARED: 11/1/94 (supersedes 10/1/91)

EMERGENCY TELEPHONE NUMBER: (716) 286-1234

INFORMATION TELEPHONE NUMBER: (716) 286-1250

CHEMICAL NAME AND SYNONYMS:

CHEMICAL FAMILY:

FORMULA:

Fused Aluminum Oxide

Refractory Oxide

N/A

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

INGREDIENT:	CAS #	Typical %	OSHA PEL	ACGIH TLV	Listed as Carcinogen
Aluminum Oxide (Al ₂ O ₃)	1344-28-1	96.4	10 mg/m ³ *	10 mg/m ³	No
Titanium Oxide (TiO ₂)	13463-67-7	2.7	15 mg/m ³ *	10 mg/m ³	No
Silicon Dioxide (SiO ₂)	7631-86-9	0.5	See Below	See Below	No
Magnesium Oxide (MgO)	1309-48-4	0.2	15 mg/m ³ *	10 mg/m ³	No
Iron Oxide (Fe ₂ O ₃)	1309-37-1	0.1	10 mg/m ³	5 mg(Fe)/m ³	No
Calcium Oxide (CaO)	1305-78-8	0.1	5 mg/m ³	2 mg/m ³	No

PEL & TLV for SiO₂ = (10 mg/m³) / (% Respirable SiO₂+2)

*Respirable fraction 5 mg/m³.

**Listed as Carcinogen by:

1. American Conference of Government Industrial Hygienists (ACGIH)
2. International Agency for Research on Cancer Monographs (IARC)
3. Nation Toxicology Program (NTP)
4. California Proposition 65 List (1988)

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

MELTING POINT (°C): 2050°C
 BOILING POINT (°C): N/A
 VAPOR PRESSURE (mmHg): Essentially 0
 VAPOR DENSITY (Air =1): N/A
 SOLUBILITY IN WATER: Insoluble

SPECIFIC GRAVITY (H₂O = 1): 3.95
 PERCENT VOLATILES BY VOLUME (%): N/A
 EVAPORATION RATE (Butyl Acetate = 1): N/A

APPEARANCE AND ODOR: Light to Dark Brown
 No Odor

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***** SECTION IV - FIRE AND EXPLOSION HAZARD DATA *****

FLASH POINT: Nonflammable FLAMMABLE LIMITS: N/A
 EXTINGUISHING MEDIA: N/A
 SPECIAL FIRE FIGHTING PROCEDURES: N/A
 UNUSUAL FIRE AND EXPLOSION HAZARD: N/A

***** SECTION V - REACTIVITY DATA *****

STABILITY: Stable CONDITIONS TO AVOID: N/A
 INCOMPATIBILITY (MATERIALS TO AVOID): N/A
 HAZARDOUS DECOMPOSITION PRODUCTS: Due to trace impurities, small amounts of flammable gases may form when mixed with water or some other liquid.
 HAZARDOUS POLYMERIZATION: N/A CONDITIONS TO AVOID: N/A

***** SECTION VI - HEALTH HAZARD DATA *****

THRESHOLD LIMIT VALUE: See Section II.
 CARCINOGENICITY: See Section II.

EFFECTS OF OVEREXPOSURE/ROUTES OF ENTRY: Exposure to excessive airborne concentrations may result in acute respiratory disorders. Continued excessive exposure may cause pulmonary fibrosis (silicosis) which may be aggravated by smoking. Individuals with impaired pulmonary function should not be subjected to excessive airborne concentrations. Symptoms of excessive exposure might include deposits of material in eyes, ears, nasal passages and irritation of the mucous membranes, eyes and respiratory tract. Irritation of the skin may also occur due to mechanical/chemical action.

EMERGENCY AND FIRST AID PROCEDURES: Remove from exposure. Irrigate eyes and skin with copious quantities of water. Seek medical attention.

***** SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE *****

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Normal precautions for inert or nuisance dusts and particulates.
 WASTE DISPOSAL METHOD: Dispose of in compliance with all Federal, state and local laws and regulations.
 PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Use handling procedures which will limit exposure to excessive airborne dust.
 OTHER PRECAUTIONS: N/A

***** SECTION VIII - CONTROL MEASURES *****

RESPIRATORY PROTECTION: Utilize NIOSH approved respiratory protection devices for nuisance dust.
 VENTILATION: Utilize local exhaust to keep airborne concentration below TLV.
 PROTECTIVE GLOVES: May be used to prevent dermatitis.
 EYE PROTECTION: Utilize NIOSH approved eye protection devices.
 OTHER PROTECTIVE EQUIPMENT: AFS sleeves or barrier creams may be useful in the prevention of dermatitis.
 WORK/HYGENIC PRACTICES: Maintain normal housekeeping procedures for nuisance dust.

The information contained within was obtained from authoritative sources and is believed to be accurate for the purpose to which the product is intended to be used. Other test data results to manufacturers which are not included within this document.

FEB-22 '96 THU 14:32 ID:3R MINERAL MFG CO
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Addendum to TSN MSDS No.: 010, 011, 012, 013 and 014

***** SECTION IX - REGULATORY INFORMATION *****

EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT (SARA, TITLE III):

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: Immediate (acute) health hazard
(May cause mechanical irritation to eyes and mucous membranes if exposed to large amounts of dust.)

Section 313 Toxic Chemical: None

DATE PREPARED: 11/1/94

The information contained within was obtained from authoritative sources and is believed to be accurate for the manner in which the product is intended to be used. Other uses could result in particulates which are not included within this document. General Abrasive Products, Inc. shall be responsible as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may not be required under particular conditions.

100-13 + 260-3

Page 1 MATERIAL SAFETY DATA SHEET (MSDS)

MSDS667 6

NUMBER: 666 Badger

IDENTITY (As Used On Label and List): Propel

EMERGENCY MEDICAL Telephone# 1-800-228-5635 X 009 (24 Hrs) Outside of the U.S.A. Call 651-632-9275

PRODUCT HAZARD RATINGS (HPPA): Health = 1, Fire = 4, Reactivity = 1, Protective Equipment = *B (Rating Legend: 4 = Extreme, 3 = Serious, 2 = Moderate, 1 = Slight, 0 = Minimal)

SECTION I

Badger Air Brush Co. 9128 W Belmont Ave Franklin Park

TELEPHONE NUMBER FOR INFORMATION :

DATE PRINTED : 4/08/02 NAME OF PREPARER : Ron Cepa

IL 60131

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Table with 6 columns: Chemical Names, Exposure Limits (LD50-Oral Rat), SARA Title III SEC 313, ACGIH TLV/TWA, OSHA PEL, % By Wt. Rows include 1,1-Difluoroethane and Butane.

Unidentified ingredients are not considered hazardous under the Federal Hazard Communication Standard. Components Listed As A Suspected Carcinogen: None

SECTION III - PHYSICAL CHARACTERISTICS

Boiling Point: -11 F Vapor Pressure (psig): 53-57 @130F Specific Gravity (H2O=1): <1 Solubility/Water: Negligible Vapor Density (AIR=1): >1 Evaporation Rate (Ether=1): <1 Appearance and Odor: Clear, water white (liquid with a sweet odor).

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Aerosol Flammability: This product is considered to be extremely flammable as described in 16CFR 1500.45. Flammable Limits - % Volume in Air (Propellant): LEL: 4.0 UEL: 17.0 Extinguishing Media: Carbon dioxide, foam and/or dry chemical may be used. Special Fire Fighting Procedures: Containers should be cooled with water to prevent vapor pressure build up. Unusual Fire and Explosion Hazards: At elevated temperatures (over 54C-130F) containers exposed to direct flame or heat contact should be cooled with water to prevent weakening of container structure.

SECTION V - REACTIVITY DATA

Stability: Stable Hazardous Polymerization: NA Incompatibility (Materials to Avoid): Alkali or alkaline earth metals. Hazardous Decomposition Products: Hydrofluoric acid, carbonyl fluoride, oxides of carbon and additional toxic chemicals may be formed in small amounts. Conditions to Avoid: Do not store above 54C-130F. Keep away from heat, direct sunlight, open flames or sparks. Dropping of containers may cause bursting.

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry: Inhalation: X Eyes: X Skin: X Ingestion: X

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PROPEL (ALUM)

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Page 2 Continuing SECTION VI - HEALTH HAZARD DATA

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Signs and Symptoms of Exposure: Overexposure by inhalation may cause nausea, headache, or temporary nervous depression with anesthetic effects such as dizziness, confusion, and loss of consciousness. Eye or skin contact with liquid may cause freezing or frostbite. Medical Conditions Generally Aggravated by Exposure: Individuals preexisting diseases of the central nervous system or cardiovascular system may have increased susceptibility to the toxicity of excessive vapors.

Emergency and First Aid Procedures: Eye Contact: Flush eyes with large amounts of water for 15 minutes while holding eyelids open. Seek medical attention. Skin Contact: Flush skin with water. Treat for frostbite if necessary by gently warming affected area. Seek medical attention. Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Seek medical attention. Ingestion: Seek medical attention. Not considered a potential route of exposure.

Notes to Physicians: Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be used with special caution only in situations of emergency life support.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Release or Spilled: Remove all sources of ignition and provide good ventilation. Waste Disposal Method: Do not puncture or incinerate containers. When contents are depleted continue to depress button until all gas is expelled. Dispose of container in accordance with local, state, and federal regulations.

Handling and Storing: Avoid breathing vapor. Keep away from heat and flame. Use with adequate ventilation. Do not puncture or incinerate containers. Do not expose to direct sunlight or store at temperatures above 130F (54C). Store as Level 3 Aerosol (NFPA 308).

Other Precautions: Please read and follow the directions on the product label; they are your best guide to using this product in the most effective way, and give the necessary safety precautions to protect your health.

SECTION VIII - EMPLOYEE PROTECTION

Respiratory Protection (Type): None required if good ventilation is maintained. If exposure exceeds occupational exposure limits (Sec. II), use a NIOSH approved respirator to prevent overexposure.

Ventilation: Local exhaust is adequate under normal conditions, mechanical ventilation is optional.

Protective Gloves: Optional: Chemical resistant gloves*.

Eye Protection: Chemical safety glasses are recommended*.

Other Protective Clothing or Equipment: Wear impervious clothing to prevent skin contact.

Work/Hygiene Practices: Ensure strict sanitary conditions are conformed to when working around chemicals. Protective clothing and equipment should be in accordance with 29 CFR 1910.132 and CFR 1910.133.

SECTION IX - OTHER REGULATORY CONTROLS

Governmental Listings: Ingredients of this product are listed on the EPA/TSCA Inventory of Chemical Substances.

SECTION X - TRANSPORTATION REQUIREMENTS (D.O.T. CLASSIFICATION)

Shipping Name: Consumer Commodity Hazard Class: ORM-D

PG-- Negligible NA-- Not Applicable ME-- Not Established UN-- Unavailable ND-- Not Determined

While the information set forth herein is believed to be accurate as of the date hereof, the Company makes no warranty or guarantee, express or implied, and disclaims all liability arising out of the use of this information. Date of: May 19, 1998