

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Good Earth - Binder - Niranium
Product Number: 805003B
Chemical Name: Ethyl Silicate/Ethyl Alcohol
Chemical Family: Silica Binder
CAS Number: Blend

Company Identification

Niranium Co., Div. of CMP Industries LLC
413 North Pearl St
Albany, NY 12207-1311 USA
(518)-434-3147 (For product information)
(800)-424-9300 (For emergencies)
1-800-424-9300 or 1-202-483-7616 (CHEMTREC)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
ETHYL ALCOHOL	35.0 - 40.0 %	64-17-5
TETRAETHYL SILICATE	55.0 - 60.0 %	78-10-4
ETHYL POLYSILICATE	< 5.0 %	11099-06-2

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

HAZARDS DISCLOSURE

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

As defined under Sara 311 and 312, this product contains materials that are acute hazards.



3. HAZARDS IDENTIFICATION

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***** EMERGENCY OVERVIEW *****
*
* CAUTION
*
* Avoid inhalation and eye contact.
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POTENTIAL HEALTH EFFECTS

EYE:

Causes eye irritation.

SKIN:

Causes skin irritation.

INHALATION:

Causes respiratory tract irritation.

INGESTION:

May cause gastrointestinal irritation if swallowed.

REPRODUCTIVE HAZARDS:

None.

CARCINOGENICITY INFORMATION:

No known cancer hazards.

MEDICAL CONDITIONS AGRAVATED BY EXPOSURE:

Not determined.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Immediately flush eyes with plenty of water. Get medical attention.

SKIN CONTACT FIRST AID:

Immediately flush skin with plenty of water for at least 15 minutes.

If cool wax contacts skin, wash with warm soapy water.

INHALATION FIRST AID:

Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.



(section 4 continued)

INGESTION FIRST AID:

Drink 2 glasses of water. Induce vomiting. Seek medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

TCC Flash Point: 16.7 C (62.1 F)

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: 3.3 %

UEL: 19 %

FLAMMABLE PROPERTIES:

Not Flammable under normal conditions.

EXTINGUISHING MEDIA:

Water spray, Dry chemical or carbon dioxide.

FIRE & EXPLOSION HAZARDS:

None.

FIRE FIGHTING INSTRUCTIONS:

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear.

COMBUSTION PRODUCTS:

None.

6. ACCIDENTAL RELEASE MEASURES

LARGE SPILLS PROCEDURE:

Dike spill with clay or suitable absorbent material. Place in DOT approved container. Keep area well ventilated.

Wear respirator and protective clothing as appropriate. Shut off source of leak. Dike & contain. Allow wax to cool and remove as solid.

SMALL SPILLS PROCEDURE:

Same as large spill.



7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Avoid contact with skin and eyes.

STORAGE PRECAUTIONS:

Store in a cool, dark dry place. Store away from heat, flame or other ignition sources. Keep container tightly capped and treat empty containers as if they are full.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE / FACE PROTECTION REQUIREMENTS:

Use splash goggles.

SKIN PROTECTION REQUIREMENTS:

Wear neoprene gloves.

RESPIRATORY PROTECTION REQUIREMENTS:

Use NIOSH respirator when TLV is exceeded.

MISCELLANEOUS:

Use local/general ventillation.

EXPOSURE GUIDELINES:

ETHYL ALCOHOL

OSHA PEL: 1000 ppm

OSHA TWA: 1000 ppm

TETRAETHYL SILICATE

OSHA PEL: 100 ppm

OSHA TWA: 10 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid
COLOR: Colorless
ODOR: Alcohol
BOILING POINT: 252 F @ 760 mm Hg
VAPOR PRESSURE: 2 mm Hg @ 68 F
VAPOR DENSITY: > .2 (Air = 1)
SOLUBILITY IN WATER ...: Decompose
SPECIFIC GRAVITY: .945 (Water = 1)
EVAPORATION RATE: B Acetate < 1



10. STABILITY AND REACTIVITY

STABILITY:

Stable.

POLYMERIZATION:

Product will not undergo polymerization.

INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid contact with alkalies.

DECOMPOSITION:

May form carbon dioxide and carbon monoxide.

CONDITIONS TO AVOID:

Heat, sparks and open flame.

11. TOXICOLOGICAL INFORMATION

ETHYL ALCOHOL

Test Code: LD₅₀

Description: Oral

Species: Human

Results: 1400 mg/kg caused sleep, headache, nausea and vomiting.

Test Code: Oral TDLO

Species: Woman

Results: 256 g/kg/12 week caused hallucinations and distorted perceptions and effected the menstrual cycle.

Test Code: Oral TDLO

Species: Woman

Results: 41 g/kg (41 weeks pregnant) produced effects on the new born (Apgar score; other mental effects, drug dependence).

Test Code: Lymphocyte Study

Description: DNA Inhibition

Species: Human

Results: 220 millimoles/L

Test Code: LC₅₀

Description: Inhalation

Species: Rat

Results: 20,000 ppm/10 hr, toxic effects not yet reviewed.



(section 11 continued)

TETRAETHYL SILICATE

Test Code: Oral LD50
Species: Rat
Results: 6270 mg/kg

ETHYL SILICATE, CONDENSED

Test Code: Eye
Species: Rabbit
Results: 100 mg/24 hr caused moderate irritation.

Test Code: LC50
Description: Inhalation
Species: Rat
Results: 1000 ppm administered for 4 hr.

Test Code: Eye
Species: Human
Results: 3000 ppm

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Dispose of waste material in accordance with all local, state/provincial, and national requirements.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL: Good Earth - Binder - Niranium
D.O.T. SHIPPING NAME: Ethyl Silicate/Ethyl Alcohol
TECHNICAL SHIPPING NAME ...: N/A
D.O.T. HAZARD CLASS: Flammable Liquid
UN NUMBER: N/A



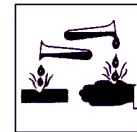
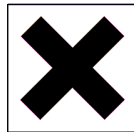
15. REGULATORY INFORMATION

REGULATORY LISTS SEARCHED:

01 = SARA 313	02 = CA Proposition 65
03 = SARA 302/304	04 = CERCLA 302.4
05 = ACGIH TWA	06 = ACGIH STEL
07 = ACGIH CALC TLV	08 = OSHA PEL
09 = CANADIAN WHMIS	10 = OSHA Ceiling

EEC Symbols and Indications of Danger:

Harmful (Xn), Irritant (Xi), Corrosive (C)



R-Phrases:

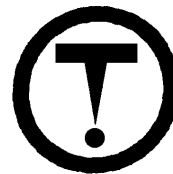
R36/38 - Irritating to eyes and skin.
R37 - Irritating to respiratory system.

S-Phrases:

S3/9 - Keep in a cool, well-ventilated place.
S3/7 - Keep container tightly closed in a cool place.

WHMIS Hazard Symbols:

Class B - Flammable and Combustible Material, Class D2 - Materials
Causing Other Toxic Effects



Canadian Disclosure List

ETHYL ALCOHOL (64-17-5)
TETRAETHYL SILICATE (78-10-4)

16. OTHER INFORMATION

PREPARED BY: Phyll Tabone
APPROVED BY: John Nicpon
TITLE: Quality Manager
APPROVAL DATE: November 15, 2007
SUPERCEDES DATE ...: January 3, 2005
MSDS NUMBER: 805003B
RTN NUMBER: 00000060 (Official Copy)



(section 16 continued)

ABBREVIATIONS USED IN THIS MSDS:

TLV - THRESHOLD LIMIT VALUE	TWA - Time Weighted Average
STEL - SHORT TERM EXPOSURE LIMIT	TPQ - Threshold Planning Quantity
RQ - REPORTABLE QUANTITY	PEL - Permissible Exposure Limit
C - CEILING LIMIT	CAS - Chemical Abstract Service Number
NDA - NO DATA AVAILABLE	N/A - Not Applicable or Not Available

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END OF MSDS

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