

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Duplivest Liquid
Product Number: 805051
Chemical Family: Colloidal Silica
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>
COLLOIDAL SILICA	40.0 - 90.0 %	7631-86-9
ETHYLENE GLYCOL	0.0 - 20.0 %	107-21-1

(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, chronic hazards.



3. HAZARDS IDENTIFICATION

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***** EMERGENCY OVERVIEW *****
*
* CAUTION
*
* Prolonged exposure may cause injury to Pulmonary
* System.
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*****
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POTENTIAL HEALTH EFFECTS

EYE:

Causes eye irritation.

SKIN:

Allergic reactions are possible.

INHALATION:

Individuals with preexisting diseases of the lungs may have increased susceptibility. Vapors may be slightly irritating to respiratory tract.

INGESTION:

Irritating to mouth, throat, and stomach. Ingestion is not considered a potential route of exposure.

CHRONIC EFFECTS:

Injury to Pulmonary System may result due to long term exposure.

REPRODUCTIVE HAZARDS:

None.

CARCINOGENICITY INFORMATION:

No known cancer hazards.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Flush eye with water for 15 minutes.

SKIN CONTACT FIRST AID:

Immediately wash skin with soap and plenty of water.

INHALATION FIRST AID:

If breathing is difficult, remove to fresh air and provide oxygen. Seek medical attention.



(section 4 continued)

INGESTION FIRST AID:

If swallowed, immediately give 2 glasses of water. Do not induce vomiting. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: N/A
Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: N/A
UEL: N/A

FLAMMABLE PROPERTIES:

Not Flammable under normal conditions.

EXTINGUISHING MEDIA:

None.

FIRE & EXPLOSION HAZARDS:

Contact with reactive metals such as Aluminum may result in generation of flammable hydrogen gas.

FIRE FIGHTING INSTRUCTIONS:

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

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Wear appropriate personal protective equipment.

LARGE SPILLS PROCEDURE:

Contain spilled material.

SMALL SPILLS PROCEDURE:

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



7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Use care in handling/storage. Wash hands thoroughly after handling.

HANDLING (PHYSICAL ASPECTS):

Store in a cool dry area.

STORAGE PRECAUTIONS:

Store in a cool dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

EYE / FACE PROTECTION REQUIREMENTS:

Chemical goggles are recommended to avoid contact with eyes.

SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination. Wash hands thoroughly after handling.

RESPIRATORY PROTECTION REQUIREMENTS:

Atmospheric levels should be maintained below the exposure guideline.

EXPOSURE GUIDELINES:

COLLOIDAL SILICA

OSHA Ceiling Limit: 20 ppm, 80 mg/m³

ETHYLENE GLYCOL

OSHA TWA: 50 ppm, 127 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid
COLOR: Translucent
ODOR: None
BOILING POINT: 212 F
SOLUBILITY IN WATER ...: Dispersible
SPECIFIC GRAVITY: 1.2 (Water = 1)

10. STABILITY AND REACTIVITY



(section 10 continued)

STABILITY:

Stable.

POLYMERIZATION:

Product will not undergo polymerization.

INCOMPATIBILITY WITH OTHER MATERIALS:

May react with aluminum.

DECOMPOSITION:

Decomposition will not occur.

11. TOXICOLOGICAL INFORMATION

CHRONIC EFFECTS /:

May cause respiratory disease.

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

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

14. TRANSPORTATION INFORMATION

PRODUCT LABEL: Duplivest Liquid
D.O.T. SHIPPING NAME ...: Non-flammable liquid

15. REGULATORY INFORMATION

REGULATORY LISTS SEARCHED:

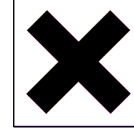
01 = SARA 313	02 = CA Proposition 65
03 = SARA 302/304	04 = CERCLA 302.4
05 = ACGIH TWA	06 = ACGIH STEL
07 = ACGIH CALC TLV	08 = OSHA PEL
09 = CANADIAN WHMIS	10 = OSHA Ceiling



(section 15 continued)

EEC Symbols and Indications of Danger:

Oxidizing (O), Irritant (Xi)

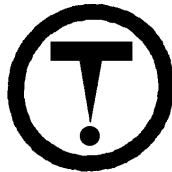


R-Phrases:

R8 - Contact with combustible material may cause fire.

WHMIS Hazard Symbols:

Class D2 - Materials Causing Other Toxic Effects, Class F - Dangerously Reactive Material



Canadian Disclosure List

COLLOIDAL SILICA (7631-86-9)
ETHYLENE GLYCOL (107-21-1)

SARA Title III - Section 313

ETHYLENE GLYCOL (107-21-1)

Title V

ETHYLENE GLYCOL (107-21-1)

SC Toxic Air Pollutants List

ETHYLENE GLYCOL (107-21-1)

16. OTHER INFORMATION

PREPARED BY: Ylvonne Thomas
APPROVED BY: Abdul Khan
TITLE: Q. C. Manager
APPROVAL DATE: April 17, 2003
SUPERCEDES DATE ...: August 14, 1997
MSDS NUMBER: 805051
RTN NUMBER: 00000004 (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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