Material Safety Data Sheet

duoMatrix™ NEO **MSDS No. 943**

Date Of Preparation: May 27, 2008 Revision: 0003

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: duoMatrix™ NEO Part A
Manufacturer: Smooth-On Inc., 2000 St. John St., Easton PA 18042
Phone (610) 252-5800, FAX (610) 252-6200
Emergency Contact: Chem-Tel
Domestic 800-255-3924
International 813-248-0585

Section 2 - Composition / Information on Ingredients

Component	CAS Number	ACGIH TWA	Exposure Limits OSHA PEL	Weight Percent (%)
Calcium Sulfate	7778-18-9	10mg/m^3 dust	15mg/m^3 total dust	**90-95**
Melamine/ Formaldehyde Resin	9003-08-1	10mg/m^3 dust 5mg/m^3 respir. dust	15mg/m^3 dust 5mg/m^3 respir. dust	**5-10**
Ammonium Chloride	12125-02-9	10mg/m^3 total dust	5 ppm total dust	**>1**
Aluminum Sulfate Hydrate	17927-65-0	None	None	**>1**

Section 3 - Hazards Identification

Potential Health Effects

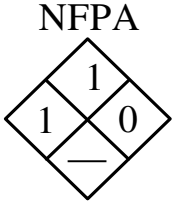
HMIS	
H	1
F	1
R	0

Primary Entry Routes: Inhalation and Dermal
Acute Effects Inhalation: Vapors cause irritation to respiratory tract. May aggravate colds, allergies, asthma, emphysema and psoriasis.
Eye: May cause irritation, redness, tearing, and blur vision. Prolonged vapor contact may cause conjunctivitis.
Skin: Contact will cause irritation, reddening, swelling, rash, scaling or blistering. Prolonged or repeated contact can cause moderate dermatitis.
Ingestion: May have corrosive effects on the linings of the mouth and stomach: symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.
Carcinogenicity: OSHA, IARC and NTP list Formaldehyde as a suspected carcinogen.
Medical Conditions Aggravated by Long-Term Exposure: Asthma, bronchitis, and emphysema, skin allergies, eczema.

Section 4 - First Aid Measures

Inhalation: Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.
Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.
Skin Contact: In case of skin contact, wash thoroughly with soap and water; remove contaminated clothing and launder before reuse; seek medical attention if rash develops.
Ingestion: Do not induce vomiting unless instructed by a physician. Contact physician immediately
After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 - Fire-Fighting Measures



Flash Point: >200 °F (93°C)
Flash Point Method: CC
Flammability Classification: Non-Flammable
Extinguishing Media: Water Fog, Dry Chemical, and Carbon Dioxide Foam
Unusual Fire or Explosion Hazards: Treat as ordinary combustible powder. Possible dust explosion if dispersed in air in large quantities.
Fire-Fighting Instructions: Fire fighters should wear self-contained breathing apparatus. Do not release runoff from fire control methods to sewers or waterways.
Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill /Leak Procedures: Provide ventilation. Collect the material for reclaim or place in covered waste container.
Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Minimize breathing of vapors and avoid prolonged or repeated contact with skin. Wear proper protective equipment. If ventilation is not sufficient, wear proper respiratory equipment. Avoid moisture contamination. Reseal partial containers. Use good general housekeeping procedures.
Storage Requirements: Store in cool dry, well-ventilated area.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:
Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.
Administrative Controls:
Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Section 8 - Exposure Controls / Personal Protection (continued)

Protective Clothing/Equipment: Wear chemically protective gloves, boots, and aprons to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics

Section 9 - Physical and Chemical Properties

Physical State: Solid
Appearance : Free flowing white powder
Odor : Odorless
Vapor Pressure: Not Applicable
Vapor Density (Air=1): Not Applicable
Specific Gravity (H_2O=1, at 4 °C): 1.1-1.4

Water Solubility: Negligible**:**
Boiling Point: Not Applicable
% Volatile: Nil
Melting Point: Not Applicable
Evaporation Rate: Not Applicable

Section 10 - Stability and Reactivity

Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization can occur.

Chemical Incompatibilities: Ammonium salts, strong oxidizing agents

Conditions to Avoid: Avoid contamination with water and other materials that react with Isocyanates.

Hazardous Decomposition Products: oxides of nitrogen, carbon monoxide and carbon dioxide.

Section 11- Toxicological Information

Eye Effects: Irritation
Skin Effects: Irritation

Carcinogenicity: IARC and NTP list Formaldehyde as a suspected carcinogen
Mutagenicity: None Determined
Teratogenicity: None Determined

Section 12 – Ecological Information

None Established

Section 13 - Disposal Considerations

Disposal: Dispose in accordance with applicable Federal, state, and local regulations.

Section 14 - Transport Information

DOT	IATA	IMDG
Not Regulated	**Not Regulated**	**Not Regulated**

Section 15 - Regulatory Information

TSCA Inventory Status (40 CFR710): All components of this formulation are listed in the TSCA Inventory.

State Regulations

California Proposition 65**:** This product contains a trace amount of Formaldehyde, which in the State of California has found to cause Cancer, birth defects or other reproductive harm.

Section 16 - Other Information

Prepared By: Dominick J. Finocchio
Title: Technical Director

Disclaimer: The information contained in this MSDS is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Smooth-On Inc., it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.

Material Safety Data Sheet

duoMatrix™ NEO **MSDS No. 943**

Date Of Preparation: May 27, 2008 Revision: 0003

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Product/Chemical Name: duoMatrix™ NEO Part B
Manufacturer: Smooth-On Inc., 2000 St. John St., Easton PA 18042
Phone (610) 252-5800, FAX (610) 252-6200
Emergency Contact: Chem-Tel
Domestic 800-255-3924
International 813-248-0585

Section 2 - Composition / Information on Ingredients

Component	CAS Number	ACGIH TWA	Exposure Limits OSHA PEL	Weight Percent (%)
Resin Emulsion in Water	Mixed	None Established	None Established	**100**

Section 3 - Hazards Identification

HMIS	
H	1
F	0
R	0

Potential Health Effects

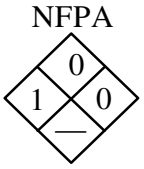
Primary Entry Routes: Dermal
Acute Effects Inhalation: Exposure to vapors in poorly ventilated areas may cause irritation of the nose, throat and respiratory tract.
Eye: Contact with liquid will cause irritation.
Skin: Contact with liquid will cause irritation
Ingestion: Small amounts are not anticipated to be harmful.
Carcinogenicity: IARC, NTP, and OSHA do not list any components of this product as a carcinogen.
Medical Conditions Aggravated by Long-Term Exposure: No Data Found

Section 4 - First Aid Measures

Inhalation: Remove source(s) of contamination and move victim to fresh air. Contact physician immediately.
Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.
Skin Contact: In case of skin contact, wash thoroughly with soap and water; remove contaminated clothing and launder before reuse; seek medical attention if rash develops.
Ingestion: Do not induce vomiting unless instructed by a physician. Contact physician immediately
After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 - Fire-Fighting Measures

Flammability Classification: Non-Flammable
Extinguishing Media: Dry Chemical, Carbon Dioxide, and Foam
Unusual Fire or Explosion Hazards: None
Fire-Fighting Instructions: Fire fighters should wear self-contained breathing apparatus. Do not release runoff from fire control methods to sewers or waterways. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.



Section 6 - Accidental Release Measures

Spill /Leak Procedures: Dike and contain spill; absorb or scrape up excess into suitable container for disposal. Stop or reduce discharge if it can be done safely**.**
Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Minimize breathing of vapors and avoid prolonged or repeated contact with skin. Wear proper protective equipment. Use good general housekeeping procedures.
Storage Requirements: Store in cool dry, well-ventilated area.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:
Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an MSHA/NIOSH-approved respirator
Administrative Controls:
Protective Clothing/Equipment: Wear chemically protective gloves. Wear protective eyeglasses per OSHA eye and face protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.
Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Appearance: Milky white liquid
Odor: Sweet odor
Vapor Pressure: Not established
Vapor Density (Air=1): Not established
Specific Gravity (H_2O=1, at 4 °C): Not established

Water Solubility: soluble
Boiling Point: Not established
% Solids by weight: 49 to 51
Freezing/Melting Point: : Not established
pH: 2.0-4.0
Evaporation Rate: Not established
Weight per Gallon: 8.9

Section 10 - Stability and Reactivity

Stability: These products are stable at room temperature in closed containers under normal storage and handling conditions.
Polymerization: Hazardous polymerization can not occur.
Chemical Incompatibilities: Strong bases, and acids.
Hazardous Decomposition Products: nitrogen compounds, carbon monoxide and carbon dioxide

Section 11- Toxicological Information

Eye Effects: Irritation
Skin Effects: Irritation

Carcinogenicity: None Determined
Mutagenicity: None Determined
Teratogenicity: None Determined

Section 12 - Ecological Information

None Established

Section 13 - Disposal Considerations

Disposal: Must be disposed of in accordance with applicable Federal, state and local regulations.

Section 14 - Transport Information

DOT	IATA	IMDG
Not Regulated	**Not Regulated**	**Not Regulated**

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)
CERCLA Hazardous Substance (40 CFR 302.4) listed specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112: None
SARA Toxic Chemical (40 CFR 372.65): None
SARA EHS (Extremely Hazardous Substance) (40 CFR 355): None
This product does not contain chemicals that are subject to release reporting requirements under **section 313 of SARA Title III.**

TSCA Inventory Status (40 CFR710): All components of this formulation are listed in the TSCA Inventory.

State Regulations:

California Proposition 65: This product contains chemicals, which have been identified by the state of California to cause cancer, birth defects or other reproductive harm.

<0.0091%	Acrylamide	(79-06-1)
<0.0001%	Acrylonitrile	(107-13-1)
<0.0378%	Formaldehyde	(50-00-0)
<0.001%	N-Methylol acrylamide	(924-42-5)

Section 16 - Other Information

Prepared By: Dominick J. Finocchio
Title: Technical Director

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