

MSDS CHEMGRIP TREATING AGENT  
NORTON PERFORMANCE PLASTICS CORPORATION

HMIS RATING: Health-1 Flammability-2 Reactivity-2

MATERIAL SAFETY DATA SHEET

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SECTION I- Identification of Product

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PRODUCT NAME: CHEMGRIP® Treating Agent

OTHER/GENERIC NAMES: N/A

FORM: Green-black liquid

PRODUCT USE: Surface treatment of Fluoropolymer materials to permit bonding.

MANUFACTURERS NAME/ADDRESS: Norton Performance Plastics Corp., 150 Dey Road, Wayne, NJ 07470 USA

EMERGENCY TELEPHONE NO.: 973-696-4700

TECHNICAL ASSISTANCE TELEPHONE NO.: 973-696-4700

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SECTION II- Composition/Information on Ingredients

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<u>Ingredient Name</u>	<u>CAS Number</u>	<u>Weight %</u>
Sodium Metal	7440-23-5	<3%
Naphthalene	91-20-3	<9%
Diethylene glycol dimethyl ether	111-96-6	>88%

All components appear on TSCA Inventory. This product contains diethylene glycol dimethyl ether which is subject to the reporting requirements of section 313 of Title III of the US EPA Superfund Amendments and Reauthorization Act of 1988 and US Code of Federal Regulations, 40CFR part 372, as a member of the chemical family "glycol diethers".

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SECTION III- Hazards Identification

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EMERGENCY OVERVIEW: May cause chemical burns (alkali) or irritation. Splashing of liquid may result in eye or skin contact if adequate safety precautions and equipment/clothing are not utilized during handling. Inhalation or ingestion may cause dizziness, drowsiness, headaches with continuing exposure potentially leading to cyanosis, central nervous system depression, nausea, and vomiting. Exposure to vapors or mists should be avoided, especially for women of childbearing potential.

Potential Health Hazards:

SKIN: May cause mild alkali (chemical) burns or irritation.

MSDS CHEMGRIP TREATING AGENT  
NORTON PERFORMANCE PLASTICS CORPORATION

Page 2 OF 6

EYES: May cause chemical burns, initial irritation, followed by conjunctival congestion.

INHALATION: May cause dizziness, drowsiness, headache, cyanosis, central nervous system depression, nausea, and vomiting.

INGESTION: May cause headache, cyanosis, central nervous system depression, nausea, and vomiting.

DELAYED EFFECTS: (for Diethylene glycol dimethyl ether) Teratogenic effects have been observed in laboratory animals at levels above 100 ppm inhalation and 125 mg/kg ingestion. This chemical is a member of the group of compounds known as "glycol diethers" which, in studies conducted on laboratory animals, have been shown to cause reversible testicular and sperm damage. There may be a particular risk for women of child bearing potential regarding this compound. Exposure to vapors or mists should be avoided, especially for women of childbearing potential.

Ingredients found on one of the OSHA designated carcinogen lists are listed below:

None listed in OSHA, NTP, or IARC.

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#### Section IV- First Aid Measures

SKIN: Wash off in flowing water. Wash promptly with soap and water until all chemical is removed. Remove and wash contaminated clothing before reuse. If irritation or burning persists, get medical attention.

EYES: Irrigate immediately with water for at least 15 minutes or until irritation or burning sensation ceases. Get prompt medical attention. Do not wear contact lenses when working with this material.

INHALATION: Avoid breathing vapors or mist. Remove victim to fresh air. If not breathing, perform mouth to mouth resuscitation. Seek medical attention. Keep victim warm and at rest.

INGESTION: Do not induce vomiting. Treat symptomatically and supportively. Get medical attention immediately. If vomiting occurs, prevent aspiration.

ADVICE TO PHYSICIAN: Treat symptoms as indicated. If ingested, adsorbents such as activated carbon may be used. Gastric lavage may be effective if used within 4 hours of ingestion.

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#### SECTION V- Fire Fighting Measures

##### Flammable Properties

FLASH POINT: 134 °F (diethylene glycol dimethyl ether)

FLASH POINT METHOD: COC

AUTO IGNITION TEMPERATURE: Not determined

UPPER FLAME LIMIT (volume % in Air): 17.4% (diethylene glycol dimethyl ether)

LOWER FLAME LIMIT (volume % in Air): 1.5% (diethylene glycol dimethyl ether)

FLAME PROPAGATION RATE (solids): Not applicable

OSHA FLAMMABILITY CLASS: Not determined.

EXTINGUISHING MEDIA: Dry soda ash, dry chemical (do not use Water, carbon dioxide, or chlorinated solvents.)

UNUSUAL FIRE AND EXPLOSIVE HAZARDS: Could react violently with water to produce potentially explosive hydrogen

MDDS CHEMGRIP TREATING AGENT  
NORTON PERFORMANCE PLASTICS CORPORATION

Page 3 OF 6

gas. Water reactivity and potential for spontaneous ignition of evolved gases has been found below defined classification levels of IATA Division 4.3, when tested by Method 11.4.1.

**SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:** Avoid moisture, water, and carbon dioxide.

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**SECTION VI- Accidental Release Measures**

**IN CASE OF SPILLS OR OTHER RELEASE:** Cover with dry soda ash until green-black color disappears. Absorb residual liquid on inert material. Secure spilled material in an appropriate container for proper disposal. Do not flush to sanitary sewer system or allow to migrate into the ground water.

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**SECTION VII- Handling and Storage**

**NORMAL HANDLING:** Keep original container tightly sealed and protected from moisture, water, excessive heat and open flame. Use adequate safety precautions during handling and storage to prevent exposure.

**STORAGE RECOMMENDATIONS:** Store at or near room temperature in original tightly sealed container. Protect from moisture, water, excessive heat and open flame.

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**SECTION VIII- Exposure Controls/Personal Protection**

**ENGINEERING CONTROLS/VENTILATION:** Ensure good ventilation or exhaust to achieve sufficiently low exposure levels.

**FIRE AND EXPLOSION:** May react violently with water to release potentially explosive hydrogen gas.

**PERSONAL PROTECTIVE EQUIPMENT:** Eye protection (side shield safety glasses, chemical goggles, or face shield). Use butyl rubber or polyethylene gloves. If conditions warrant, use chemical apron. If ventilation proves inadequate, use NIOSH approved organic vapor respirator.

**ADDITIONAL RECOMMENDATIONS:** Use good chemical handling hygiene.

**EXPOSURE GUIDELINES/LIMITS:**

Ingredient	CAS No.	OSHA	ACGIH	STEL
Sodium Metal	7440-23-5	Not established	Not established	Not established
Naphthalene	91-20-3	15 ppm	10 ppm	Not established
Diethylene glycol dimethyl ether	111-96-6	Not established	5 ppm (TWA)*	25 ppm **

\* 1ppm (8 hr TWA) recommended for women of child-bearing potential.

\*\* 5 ppm recommended for women of child-bearing potential.

**OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:** Not available.

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**SECTION IX- Physical and Chemical Properties**

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APPEARANCE: Green-black liquid

PHYSICAL STATE: liquid (mixture)

ODOR: odor of moth balls

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.0 (approximately)

SOLUBILITY IN WATER (weight %): Partially soluble (solvent 100% soluble), can react violently.

pH: (1% solution): Not determined

BOILING POINT: approximately 324 °F at 760 mmHg

MELTING POINT: Not determined

VAPOR PRESSURE: 3 mmHg (approximately)

VAPOR DENSITY (air = 1): 5 (approximately)

EVAPORATION RATE: Not determined

% VOLATILES: 88% (negligible VOC content)

IGNITION TEMPERATURE: Not determined.

FLASH POINT: 134 °F (diethylene glycol dimethyl ether). (Flash point method and additional flammability data are found in Section V.)

THERMAL DECOMPOSITION: See Section X.

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**SECTION X- Stability and Reactivity**

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CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: Avoid exposure to moisture, water, excessive heat, or open flame.

INCOMPATIBILITIES/REACTS: Strong oxidizers, water, moisture, carbon dioxide, chlorinated solvents. Water reactivity and potential for spontaneous ignition of evolved gases has been found below defined classification levels of IATA Division 4.3, when tested by Method 11.4.1.

HAZARDOUS DECOMPOSITION PRODUCTS: Sodium hydroxide, hydrogen, ether peroxides.

HAZARDOUS POLYMERIZATION: Will not occur.

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**SECTION XI- Toxicological Information**

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GENERAL: Potential toxicities as indicated in Section III.

IMMEDIATE (ACUTE) EFFECTS: See section III.

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS: (for Diethylene glycol dimethyl ether) Teratogenic effects have been observed in laboratory animals at levels above 100 ppm inhalation and 125 mg/kg ingestion. This chemical is a member of the group of compounds known as "glycol diethers" which, in studies conducted on laboratory animals, have been shown to cause reversible testicular and sperm damage. There may be a particular risk for women of child bearing

potential regarding this compound. Exposure to vapors or mists should be avoided, especially for women of childbearing potential.

TOXICITY OF PRODUCT: For Diethylene glycol dimethyl ether: Oral LD<sub>50</sub> = 4760 mg/kg (rat).

OTHER DATA: A study with laboratory animals indicates that chronic alcohol (ethanol) ingestion may increase the potential for teratogenic or other toxic effects from exposure to glycol ethers and diethers.

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#### SECTION XII- Ecological Information

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Diethylene glycol dimethyl ether biodegrades slowly in the environment.

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#### SECTION XIII- Disposal Considerations

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Neutralized material (see Section VI) is considered an organic liquid waste.  
Dispose of material according to local, state, federal, province, or country regulations.  
Empty containers of this material must be handled as hazardous waste

This information relates only to uncontaminated product. If used in a process which contaminates product, then disposal considerations should be re-evaluated.

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#### SECTION XIV- Transport Information

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US DOT HAZARD CLASS: Flammable Liquid (3)  
US DOT SHIPPING NAME: Flammable Liquid, N. O. S. [Mixture: Diethylene Glycol Dimethyl Ether- Sodium-Naphthalene Complex]  
US DOT Reportable Quantity: as noted on shipping documents.

UN No.: UN 1993  
UN CLASS: Class 3- Flammable Liquids

ICAO/IATA: Not determined

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#### SECTION XV- Regulatory Information

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Toxic Substances Control Act (TSCA)

M 3 CHEMGRIP TREATING AGENT  
NORTON PERFORMANCE PLASTICS CORPORATION

Page 6 OF 6

TSCA INVENTORY STATUS: All components are listed on the TSCA Inventory.

OTHER TSCA ISSUES: N/A

SARA Title III/CERCLA

"Reportable Quantities" (RQ's) and/or "Threshold Planning Quantities" (TPQ's) exist for the following ingredients.

This product contains no substances at or above the reporting thresholds.

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.

SECTION 311 HAZARD CLASS: None

The following ingredients are SARA 313 "Toxic Chemicals", CAS numbers and weight percents are found in Section II.

<u>Ingredient Name</u>	<u>Comment</u>
None	

STATE RIGHT-TO-KNOW

In addition to the ingredients found in Section II, the following are listed for state right-to-know purposes.

<u>Ingredient Name</u>	<u>Weight %</u>	<u>Comment</u>
None		

ADDITIONAL REGULATORY INFORMATION: All components appear on TSCA Inventory. This product contains diethylene glycol dimethyl ether which is subject to the reporting requirements of section 313 of Title III of the US EPA Superfund Amendments and Reauthorization Act of 1988 and US Code of Federal Regulations, 40CFR part 372, as a member of the chemical family "glycol diethers".

WHMIS CLASSIFICATION (CANADA): N/A

FOREIGN INVENTORY STATUS: N/A

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**SECTION XVI- Other Information**

This material safety data sheet was prepared in compliance with US OSHA Hazard Communication Standard 29CFR 1910.1200 and the European Council Directive 91/155/EEC, 67/548 and 88/379/EEC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labeling of dangerous substances and preparations.

The information and recommendations set forth above are taken from sources believed to be accurate as of the date hereof; however, Norton Performance Plastics Corporation makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof. The information contained in this sheet does not constitute a hazard assessment and should not be used in place of the user's own assessment of workplace risks as required by other health and safety legislation.

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