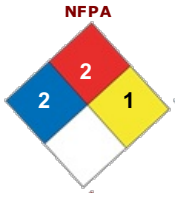
SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION



Product Name:	**Mothers Professional Glass Cleaner Concentrate**
Product Code:	87632, 87638, 87645, 87655
MSDS Manufacturer Number:	87632, 87638, 87645, 87655
Manufacturer Name:	Saint-Gobain Abrasives, Inc.
Address:	1 New Bond Street Worcester, MA 01615
General Phone Number:	508-795-5000
Emergency Phone Number:	508-795-5000
Website:	www.Nortonabrasives.com
MSDS Creation Date:	February 28, 2014
MSDS Revision Date:	February 28, 2014

HMIS

Health Hazard	**2**
Fire Hazard	**4**
Reactivity	**1**
Personal Protection	

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	EC Num.
2-Butoxyethanol	111-76-2	< 10 by weight	
Isopropyl Alcohol	67-63-0	10 - 30 by weight	

SECTION 3 : HAZARDS IDENTIFICATION

Emergency Overview:	Combustible. Irritant.
Route of Exposure:	Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:	
Eye:	May cause irritation.
Skin:	May cause irritation.
Inhalation:	Prolonged or excessive inhalation may cause respiratory tract irritation.
Ingestion:	May be harmful if swallowed. May cause vomiting.
Chronic Health Effects:	Prolonged or repeated contact may cause skin irritation.
Signs/Symptoms:	Overexposure may cause headaches and dizziness.
Target Organs:	Eyes. Skin. Respiratory system. Digestive system.
Aggravation of Pre-Existing Conditions:	None generally recognized.

SECTION 4 : FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for 15 to 20 minutes. Get medical attention, if irritation or symptoms of overexposure persists.
Skin Contact:	Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Other First Aid:	Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

SECTION 5 : FIRE FIGHTING MEASURES

Flammable Properties:	Combustible liquid.
Flash Point:	145 °F / > 62 °C
Auto Ignition Temperature:	Not determined.
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	Not determined.
Fire Fighting Instructions:	Extremely flammable. Cool fire-exposed containers using water spray.
Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.
Unsuitable Media:	Water or foam may cause frothing.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
Unusual Fire Hazards:	Flammable liquid. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back.

NFPA Ratings:

NFPA Health:	2
NFPA Flammability:	2
NFPA Reactivity:	1

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personnel Precautions:	Use proper personal protective equipment as listed in section 8.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Spill Cleanup Measures:	Remove all sources of ignition. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container for disposal.

SECTION 7 : HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing. Remove all sources of ignition. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and incompatible substances. Keep container tightly closed when not in use. Do not store in temperatures above 120 °F.
Work Practices:	To reduce potential for static discharge, bond and ground containers when transferring material.
Special Handling Procedures:	Handle with care. Contents are under pressure. Excessive pressure and temperature will cause over pressurization and result in container bursting or exploding.
Hygiene Practices:	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Skin Protection Description:	Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

EXPOSURE GUIDELINES

2-Butoxyethanol :

Guideline ACGIH:	TLV-TWA: 20 ppm
Guideline OSHA:	PEL-TWA: 50 ppm

Isopropyl Alcohol :

Guideline ACGIH:	TLV-TWA: 200 ppm

Guideline OSHA:	PEL-TWA: 400 ppm

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

Physical State:	Liquid.
Color:	blue.
Boiling Point:	No Information Provided.
Melting Point:	No Information Provided.
Specific Gravity:	No Information Provided.
Solubility:	No Information Provided.
Vapor Density:	No Information Provided.
Vapor Pressure:	No Information Provided.
Evaporation Rate:	No Information Provided.
pH:	5 - 6
Flash Point:	145 °F / > 62 °C
Auto Ignition Temperature:	Not determined.

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Hazardous Polymerization:	Not reported.
Conditions to Avoid:	Heat, flames, ignition sources, and sparks. Incompatible materials. Freezing or temperatures below 0°C (32°F).
Incompatible Materials:	Oxidizing agents. Strong acids and alkalis.

SECTION 11 : TOXICOLOGICAL INFORMATION

2-Butoxyethanol :

Eye:	Administration into the eye - Rabbit Standard Draize test : 100 mg/24H [Moderate] (RTECS)
Skin:	Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill : 220 mg/kg [Details of toxic effects not reported other than lethal dose value] Administration onto the skin - Rabbit TDLo - Lowest published toxic dose : 0.56 mL/kg/1H [Blood - Other hemolysis with or without anemia Liver - Other changes Kidney/Ureter/Bladder - Other changes] Administration onto the skin - Rabbit Open irritation test : 500 mg [Mild] (RTECS)
Inhalation:	Inhalation - Rat LC50 - Lethal concentration, 50 percent kill : 450 ppm/4H [Behavioral - Ataxia Nutritional and Gross Metabolic - Weight loss or decreased weight gain] Inhalation - Mouse LC50 - Lethal concentration, 50 percent kill : 700 ppm/7H [Behavioral - Analgesia Lungs, Thorax, or Respiration - Dyspnea Kidney/Ureter/Bladder - Hematuria] Inhalation - Mouse LC50 - Lethal concentration, 50 percent kill : 3380 mg/m3/7H [Liver - Other changes Kidney/Ureter/Bladder - Other changes Blood - Other hemolysis with or without anemia] Inhalation - Rat LC50 - Lethal concentration, 50 percent kill : 2900 mg/m3/7H [Liver - Other changes Kidney/Ureter/Bladder - Other changes Blood - Other hemolysis with or without anemia] (RTECS)
Ingestion:	Oral - Mouse LD50 - Lethal dose, 50 percent kill : 1230 mg/kg [Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Somnolence (general depressed activity) Skin and Appendages - Hair] Oral - Rabbit LD50 - Lethal dose, 50 percent kill : 300 mg/kg [Details of toxic effects not reported other than lethal dose value] Oral - Mouse LD50 - Lethal dose, 50 percent kill : 1167 mg/kg [Liver - Other changes Kidney/Ureter/Bladder - Other changes Blood - Other hemolysis with or without anemia] Oral - Rat LD50 - Lethal dose, 50 percent kill : 917 mg/kg [Liver - Other changes Kidney/Ureter/Bladder - Other changes Blood - Other hemolysis with or without anemia] Oral - Rabbit LD50 - Lethal dose, 50 percent kill : 320 mg/kg [Liver - Other changes Kidney/Ureter/Bladder - Other changes Blood - Other hemolysis with or without anemia](RTECS)

Isopropyl Alcohol :

Eye:	Administration into the eye - Rabbit Standard Draize test : 100 mg [Severe] Administration into the eye - Rabbit Standard Draize test : 10 mg [Moderate] Administration into the eye - Rabbit Standard Draize test : 100 mg/24H [Moderate] (RTECS)
Skin:	Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill : 12800 mg/kg [Details of toxic effects not reported other than lethal dose value] Administration onto the skin - Rabbit Standard Draize test : 500 mg [Mild] (RTECS)
Inhalation:	Inhalation - Rat LC50 - Lethal concentration, 50 percent kill : 16000 ppm/8H [Details of toxic effects not reported other than lethal dose value] Inhalation - Mouse LC50 - Lethal concentration, 50 percent kill : 53000 mg/m3 [Behavioral - General anesthetic Lungs, Thorax, or Respiration - Other changes] Inhalation - Rat LC50 - Lethal concentration, 50 percent kill : 72600 mg/m3 [Behavioral - General anesthetic Lungs, Thorax, or Respiration - Other changes] (RTECS)
Ingestion:	Oral - Rat LD50 - Lethal dose, 50 percent kill : 5045 mg/kg [Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Somnolence (general depressed activity)] Oral - Mouse LD50 - Lethal dose, 50 percent kill : 3600 mg/kg [Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Somnolence (general depressed activity)] Oral - Rabbit LD50 - Lethal dose, 50 percent kill : 6410 mg/kg [Details of toxic effects not reported other than lethal dose value] Oral - Mouse LD50 - Lethal dose, 50 percent kill : 3600 mg/kg [Behavioral - General anesthetic] Oral - Rat LD50 - Lethal dose, 50 percent kill : 5000 mg/kg [Behavioral - General anesthetic] (RTECS)

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Fate:	No environmental information found for this product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name:	Not regulated as hazardous material for transportation.
DOT UN Number:	Not regulated as hazardous material for transportation.

SECTION 15 : REGULATORY INFORMATION

Canada WHMIS:	WHMIS Hazard Class(es): B5; D2B This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.
2-Butoxyethanol :	
TSCA Inventory Status:	Listed
Canada DSL:	Listed
Isopropyl Alcohol :	
TSCA Inventory Status:	Listed
Canada DSL:	Listed

SECTION 16 : ADDITIONAL INFORMATION

MSDS Creation Date:	February 28, 2014
MSDS Revision Date:	February 28, 2014