



MATERIAL SAFETY DATA SHEET

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Troy Chemical Industries, Inc. urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology and fire prevention, as necessary or appropriate to use and understand the data contained in this MSDS.

To promote safe handling, each customer or recipient should: 1) Notify its employees, agents, contractors and other whom it knows or believes will use this material of the information in this MSDS and any other information regarding hazards or safety; 2) Furnish this same information to each of its customers for the product; and 3) Request its customers to notify their employees, customers and other users of the product, of this information.

SECTION 1 GENERAL INFORMATION & PRODUCT IDENTIFICATION

Product Name: 2004

EMERGENCY CONTACT: INFOTRAC 1-800-535-5053 (North America)

This number is to be used ONLY in case of emergencies involving a spill, leak, fire exposure or accident involving chemicals.

MSDS Prepared By: Russell Wrightman

Version Number: 1
 Supersedes: 01/27/1997
 Form Revision Date: 11/25/2003
 Data Revision Date: 02/13/2004
 Formula: Proprietary
 Chemical Family: Cleaning Compound, Liquid
 Packing Group: III
 Proper DOT Shipping Name: Cleaning compound, liquid
 DOT Hazard Classification: Combustible Liquid
 DOT Hazard Label: None
 Identification Number: NA1993

HMIS Hazard Rating		
Health:	2	(Moderate)
Flammability:	2	(Moderate)
Reactivity:	0	(Minimal)
Special:	None	

SECTION 2 HAZARDOUS INGREDIENTS (29CFR 1910.1200)

Chemical Name	CAS Number	Maximum %	OSHA (PEL) TWA	ACGIH (TLV) TWA	OSHA (STEL) TWA
Isopropyl Alcohol	000067-63-0	7	400 ppm	400 ppm	500 ppm
Ethylene Glycol Butyl Ether	000111-76-2	4	50 ppm	25 ppm	N/E

N/E = None Established N/A = Not Applicable

NOTE: If this product contains chemical subject to the reporting requirements of Section 313 of EPCRA of 1986, They will be listed in Section 11.

SECTION 3 PHYSICAL PROPERTIES

Appearance: Clear blue liquid with mild, alcohol odor.
 Boiling Range (760 mm Hg): 180 °F
 Melting Range (760 mm Hg): Not Determined
 Vapor Pressure (mm Hg): < 1 @ 20°C (63°F)
 Vapor Density (Air = 1): > 1
 Specific Gravity (Water = 1): 0.970 - 0.990 (0.980 Nominal)
 % Volatile (By Weight, Excluding Water): 11
 Evaporation Rate (BuAc = 1): < 1
 Solubility (In Water): Complete
 pH (Concentrate): 6.00 - 8.00
 pH (1% Aqueous Solution): 6.00 - 8.00

SECTION 4 FIRE & EXPLOSION HAZARD DATA

Flash Point (TAG Closed Cup): 55 °F (ASTM D93)
 Upper Flammable Limit (% in Air): Not Determined
 Lower Flammable Limit (% in Air): Not Determined
 Extinguishing Media: Water spray, dry chemical, carbon dioxide. Use water spray to cool nearby containers and structures exposed to fire.
 Special Fire-Fighting Procedures: Evacuate non-emergency personnel to a safe area. Contact emergency personnel as necessary. 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.
 Unusual Fire & Explosion Hazards: None known.

SECTION 5 REACTIVITY DATA

Stability: Stable under normal use and storage conditions.
 Conditions to Avoid: Excessive heat, open flames, sparks or any other ignition source.
 Materials to Avoid: Contact with strong oxidizing or reducing agents.
 Hazardous Decomposition Products: Burning can produce the following decomposition products: Oxides of carbon, silicon and nitrogen. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant. Acute overexposure to the products of combustion may result in irritation of the respiratory tract.
 Hazardous Polymerization: Will Not Occur

SECTION 6 HEALTH HAZARD DATA

Threshold Limit Value (TLV): None Established. See SECTION 2 for TLV's of Hazardous Ingredients in this product.
 Permissible Exposure Level (PEL): None Established. See SECTION 2 for PEL's of Hazardous Ingredients in this product.
 Primary Route(s) of Exposure: Skin and eye contact. Inhalation of vapors and mists.
 Eye Contact: Eye contact can cause mild to moderate irritation, redness and itching.
 Skin Contact: Prolonged exposure can cause skin irritation. May cause red blood cell hemolysis and possible liver and kidney injury from glycol ether component.
 Ingestion: Can cause nausea, vomiting and gastrointestinal upset (e.g. diarrhea). May cause red blood cell hemolysis and possible liver and kidney injury from glycol ether component.
 Inhalation: High vapor concentrations can be irritating to the throat and nose, causing stinging and watering of the eyes. At concentrations which cause irritation, dizziness, faintness, drowsiness, nausea and vomiting may also occur. Inhalation of aerosols may cause irritant effects including nasal discomfort and discharge, cough, production of sputum, discomfort in the chest and possibly difficulty with breathing. May cause red blood cell hemolysis and possible liver and kidney injury from glycol ether component.
 Chronic Effects of Exposure: Repeated contact with the skin may cause a severe cumulative dermatitis. Long term repeated exposure to aerosols from undiluted or aqueous material may result in irritation and injury of the respiratory tract.
 Medical Conditions Generally Aggravated by Exposure: Skin contact may aggravate an existing dermatitis.

SECTION 7 EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids open during this flushing with water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
GET IMMEDIATE MEDICAL ATTENTION

SKIN CONTACT: Immediately wash thoroughly with soap and water, then flush with plenty of water. Remove contaminated clothing and do not reuse before washing.
GET IMMEDIATE MEDICAL ATTENTION

INGESTION: CALL A PHYSICIAN. Unless otherwise advised by a physician, induce vomiting by giving syrup of ipecac followed by two glasses of water or by sticking finger down throat.
GET IMMEDIATE MEDICAL ATTENTION

INHALATION: Remove to fresh air. If not breathing, administer artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen.
GET IMMEDIATE MEDICAL ATTENTION

NOTE TO PHYSICIAN: No specific antidote is known. Therapy is directed at preventing absorption, administering to the symptoms as they occur and providing supportive therapy.

SECTION 8 TOXICITY DATA - INGREDIENTS LISTED AS CARCINOGENS

Chemical Name	CAS Number	NTP	IARC	ACGIH	SUBPART Z	OSHA
Isopropyl Alcohol	000067-63-0	No	No	No	No	No
Ethylene Glycol Butyl Ether	000111-76-2	No	No	No	No	No

SECTION 9 PERSONAL PROTECTION EQUIPMENT INFORMATION

- RESPIRATORY PROTECTION:** Use NIOSH/NSHA approved dust/mist filter respirator for routine work purposes when exposure to dusts or mists exceed the permissible exposure level (PEL). The respirator use limitations made by NIOSH/NHSA 20 CFR 1910.134.
- VENTILATION:** Use ventilation adequate to keep exposures to hazardous ingredients below their Threshold Limit Values (TLV) or Permissible Exposure Levels (PEL). See Section 2. Local exhaust should be sufficient to maintain dust and mist levels below the PEL.
- EYE PROTECTION:** Chemical splash goggles if eye contact is likely.
- PROTECTIVE GLOVES:** Impervious gloves (rubber, nitrile or neoprene).
- OTHER PROTECTIVE EQUIPMENT:** Appropriate protective clothing if working with concentrated products. Products at use dilution MAY present less risk but protective clothing should still be worn.

SECTION 10 DISPOSAL INFORMATION

- MATERIAL SPILL OR RELEASE:** **STEPS TO BE TAKEN:** Wear protective equipment including rubber boots, rubber gloves, rubber apron and a self contained breathing apparatus in the pressure demand mode or a supplied-air respirator. If the spill or leak is small, a full face piece air-purifying cartridge respirator equipped for organic vapors may be satisfactory. In any event, always wear eye protection.
- For large spills, contain by diking with soil or other noncombustible sorbent material and then pump into DOT approved waste containers; or absorb with noncombustible sorbent material, place in DOT approved waste containers. **KEEP OUT OF SEWERS, STORM DRAINS, SURFACE WATERS AND SOILS.** Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.
- WASTE DISPOSAL METHOD:** Dispose of contaminated material in accordance with all Federal, State, and Local regulations. Recycle if feasible or treat at an industrial or liquid waste facility.

SECTION 11 FEDERAL REGULATORY INFORMATION

Chemical Name	CAS Number	Maximum %	Clean Air Act	313 Toxic Chemicals	CERCLA Reportable Quantity (Pounds)	Reportable Product quantity (Pounds)
Isopropyl Alcohol	000067-63-0	7	Yes	No	None	0
Ethylene Glycol Butyl Ether	000111-76-2	4	Yes	Yes	None	0

SECTION 12 STATE REGULATORY INFORMATION

Chemical Name	CAS Number	Maximum %	State Lists	Miscellaneous	Proposition 65
Isopropyl Alcohol	000067-63-0	7	MA1, NJ1S, PA1E	None	No
Ethylene Glycol Butyl Ether	000111-76-2	4	MA1, NJ1, PA1	None	No

SECTION 13 HANDLING PRECAUTIONS

- PRECAUTIONS TO BE TAKEN** Avoid skin and eye contact.
- DURING HANDLING AND STORAGE:** Avoid excessive inhalation of vapors and mists.
- Wash thoroughly after handling. Clean contaminated clothing before reuse.
- Store in cool, well ventilated place away from incompatible chemicals and materials.
- OTHER PRECAUTIONS:** An eye/face fountain and deluge shower should be available in the work area.
- Empty containers may retain vapors or product residue.
- Always obey hazard warnings and handle empty containers as if they were full.
- Do not get in eyes, on skin or on clothing.
- Do not swallow.
- Do not breath vapors or mists.
- Do not eat, drink or smoke in work area containing chemicals.

SECTION 14 USERS RESPONSIBILITY

The information contained herein is derived from upstream Material Safety Data Sheets and other references, considered, to the best of our knowledge and belief, to be accurate and reliable, but not guaranteed to be so. Since conditions of handling and use are beyond our control, no warranties, express or implied, are made.

The responsibility to provide a safe workplace remains with the user. The user should review the health hazards and safety information presented in this Material Safety Data Sheet and implement those safety procedures that are needed to insure a safe work environment in your facility.

It is also the responsibility of the user to comply with all applicable Federal, State and Local laws and regulations.