

Material Safety Data Sheet

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Section 1: Product Identification

MSDS Code: 4112 - liquid Name: Cleaner Degreaser - NPB Heavy Duty

Related Part Numbers: 4112-20L; 4112-200L

Use: For cleaning and degreasing, where a non-flammable cleaner is required.

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Manufacturer
106-94-5	1-bromopropane (stabilized)	95 - 100	N/e	N/e	50ppm
67-63-0	2-propanol	1-5	200ppm	400ppm	500ppm

Section 3: Hazards Identification

WHMIS Codes: D2A

NFPA Ratings: Health 2 Flammability 0 Reactivity 0

HMIS Ratings: Health 2 Flammability 0 Reactivity 0

Eyes: Causes severe eye irritation.

Skin: Can cause irritation, especially under the fingernails.

Inhalation: Product is irritating to the nose, throat, and respiratory tract.

Ingestion: Causes irritation, a burning sensation of the mouth and throat, and abdominal pain.

Chronic: Prolonged exposure may cause dermatitis, defatting of the skin.

Section 4: First Aid Measure

Eyes: Remove contact lenses. Flush with water or saline for 20 minutes. Get medical aid.

Skin: Wash skin with large quantities of soap and water. Get medical aid.

Inhalation: Immediately remove from exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Ingestion: Do not induce vomiting. If conscious, give 1-2 glasses of water. Get medical aid.

Section 5: Fire Fighting Measures

Autoignition Temperature:	N/a	Flash Point: N/a	LEL / UEL: 3/8
Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or chemical foam.		
General Information:	Will burn if involved in a fire.		

Section 6: Accidental Release Measures

Spill Procedure: Provide adequate ventilation. Wear appropriate personal protection. Sprinkle absorbent compound onto spill, then sweep into a plastic or metal container. Wipe up further residue with paper towel and place into container. Wash spill area with soap and water.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Do not expose container to heat or flame.

Storage: Store in a cool, dry, well-ventilated area, away from incompatible substances.

Section 8: Exposure Controls

Routes of entry: Eyes, ingestion, inhalation, and skin.

Ventilation: Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

Personal Protection: Wear appropriate protective eyeglasses or chemical safety goggles. Wear appropriate protective clothing to prevent skin contact. Use a NIOSH approved respirator when necessary.

Section 9: Physical and Chemical Properties

Physical State:	Liquid	Odor:	Sweet	Solubility:	Negligible	Evaporation Rate:	>1 (ether=1)
Boiling Point:	70°C	Specific Gravity:	1.353	Vapor Pressure:	2 PSI @21°C	Vapor Density:	4.24(Air=1) pH: N/a

Section 10: Stability and Reactivity

Stability: Stable at normal temperatures and pressures.

Conditions to avoid: Temperatures over 40°C, ignition sources, and incompatible substances.

Incompatibilities: Strong acids and bases. May attack some plastics and rubbers

Polymerization: Will not occur.

Decomposition: Carbon monoxide, carbon dioxide, hydrogen bromide, and/or bromine.

Section 11: Toxicological Information

Sensitization: (effects of repeated exposure) Not known to.

Carcinogenicity: (risk of cancer) The ingredients of this product are not classified as being carcinogenic by ACGIH (American Conference of Governmental Industrial Hygienists) or IARC (International Agency for Research on Cancer), not regulated as carcinogens by OSHA (Occupational Safety and Health Administration), and not listed as carcinogens by NTP (National Toxicology Program)

Teratogenicity: (risk of malformation in an unborn fetus) No

Reproductive Toxicity: (risk of sterility) A recent study showed that n-propyl bromide is reproductively toxic at 500ppm; a second-generation rat study is being conducted with the results expected in late 2000.

Mutagenicity: (risk of heritable genetic effects) No

Lethal Exposure

Ingestion	N/e	Inhalation	1781 g/m3	Skin	N/e
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Concentrations: (LD50): (LC50): 4hr (LD50):

Section 12: Ecological Information

General Information: Avoid runoff into storms and sewers that lead into waterways. Water runoff can cause environmental damage.

Environmental Impact Data: (percentage by weight)

CFC: 0 HFC: 0 Cl.Solv: 0 VOC: 100 HCFC: 0 ODP: 0

Section 13: Disposal Information

General Information: Dispose of in accordance with all local, provincial, state, and federal regulations. Water runoff can cause environmental damage.

Section 14: Transportation Information

Ground:

Non-regulated

Air within continental USA:

Non-regulated

All other air:

Non-regulated

Sea - All Sizes:

Non-regulated

Section 15: Regulatory Information

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.

SARA (Superfund Amendments and Reauthorization Act of 1986, USA, 40 CFR 372.4)

None of the chemicals in this product have a reportable quantity.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product does not contain any chemicals subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain any chemicals listed as hazardous air pollutants.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, May 1, 1997 revision, USA)

This product does not contain any chemicals listed.

Health Canada

Labeling and containers used in this product are listed in compliance with Consumer Chemicals and Container regulations.

Section 15: Regulatory Information Cont.

Environment Canada

Chemicals in this product are listed on the Domestic Substances List in the Canadian Environmental Protection Act

This product does not contain any ozone depleting substances.

Industry and Science Canada

Labeling, product identity, net quantity declaration, minimum printing type size heights, and packaging of this product is in compliance with the Consumer Packaging and Labeling Act and Regulations. This product is not slack filled in accordance to chapter 4 prohibitions.

RoHS (The restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2004).

This product is RoHS compliant.

Section 16: Other Information

Definitions: N/a = not applicable, n/e = not established

Disclaimer: This material safety data sheet is provided as an information resource only. M.G. Chemicals believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.