

Cleaner Degreaser NPB Heavy Duty 4112



Use when a non-flammable extremely aggressive cleaner degreaser is required, and toxicity is not a concern. A cost effective 141B replacement.

For use in exactly the same application as [827B](#), but where non-flammable is a requirement. Avoid inhalation. Respirator recommended. Suitable for use in vapor degreasers. Suitable for use as a cleaner degreaser, contact cleaner, or flux remover. Extra effective with the use of M.G. Cat.#'s [852](#) and [853](#) Hog Hair cleaning brushes.

Available Sizes

Catalog Number	Sizes Available	Description
4112-340G	340g (12 oz)	Aerosol
4112-20L	20L (5 gal)	Liquid
4112-200L	200L (50 gal)	Liquid



Material Safety Data Sheet

Section 1: Product Identification

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

Related Part Numbers: 4112-340G

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)	70 - 80	N/e	N/e	25ppm
811-97-2	1,1,1,2-tetrafluoroethane	20 - 30	1000ppm	N/e	N/e
67-63-0	2-propanol	1-5	200ppm	400ppm	500ppm

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 3: Hazards Identification

WHMIS Codes: A, D2A

NFPA Ratings: Health 2 Flammability 0 Reactivity 0

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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:	Aerosol	Odor:	Sweet	Solubility:	Negligible	Evaporation Rate:	>1 (ether=1)
Boiling Point:	70°C	Specific Gravity:	1.353	Vapor Pressure:	45 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: Alkali and alkaline earth metals; powdered aluminum, zinc, magnesium, and beryllium. 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)	Not known to.		
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)	Not known to.		
Lethal Exposure Concentrations:	Ingestion (LD50):	N/e	Inhalation (LC50): 1781 g / m3 / 4 hr.
			Skin (LD50): N/e

Section 12: Ecological Information

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

Environmental Impact Data: (percentage by weight)

CFC: 0 **HFC:** 0 **Cl.Solv:** 0 **VOC:** 75 **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:

Consumer Commodity, ORM-D

Air:

Shipper must be trained and certified. Refer to IATA regulations.

Sea:

Shipper must be trained and certified. Refer to IMDG regulations.

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.