

Material safety data sheet: Net De-Greaser**SECTION 1 - PRODUCT IDENTIFICATION**

Product identifier/Trade name: Net De-Greaser
Product code/Internal Identification: 1342
Supplier/ Manufacturer identifier: Les Produits Brabs Inc.
 155B Boulevard Industriel
 Chateauguay, Québec J6K 7J3

DANGEROUS GOODS EMERGENCY
 Call CANUTEC phone number 24 Hours
 (613) 996-6666

WHMIS Classification: E - Corrosive liquid

SECTION 2 - CHEMICAL COMPOSITION / HAZARDOUS INGREDIENTS

| Hazardous Ingredients | % (weight) | CAS # | LD ₅₀ (route, specie) | LC ₅₀ (specie) |
|-----------------------|------------|-----------|----------------------------------|------------------------------------|
| Hydroxide potassium | 5-10 | 1310-58-3 | 1260 mg/kg (rabbit) | 205 mg/m ³ (irritation) |

SECTION 3 - HAZARDS IDENTIFICATION

Physical state Liquid
PH (water=7) 12.5
Odour and appearance Light odour; Amber liquid
Odour threshold 1 – 5 ppm
Vapour density > 1 (air = 1)
Boiling point 270⁰C
Vapour pressure 2 to 20°C
Freezing point - 42⁰C
Evaporation rate 1 (butyl acetate = 1)
Coefficient of water/oil distribution N/A

SECTION 4 - FIRE OR EXPLOSION

Conditions of flammability: N/Ap

Means of extinction: use water or other extinguishing agent appropriate to surrounding fire conditions. Wear NIOSH approved self-contained breathing apparatus with full face piece and full protective clothing. Use water spray to cool fire exposed containers.

Flash point none
Auto-ignition temperature N/Av
Upper flammable limit none
Mechanical impact sensitivity N/Av
Lower flammable limit none
Static discharge sensitivity N/Av

Hazardous combustion products: HCl evolution accelerated by heating or contact with water reactive materials, such as concentrated sulphuric acid.

SECTION 5 - REACTIVITY DATA

Chemical instability conditions: stable

Incompatible substances and conditions of reactivity: alkalis, combustible material, aluminum, galvanize zinc. Do not put in contact with trichlorethylene because some flammable dichloroethylene must be form spontaneously.

Hazardous decomposition products: HCl evolutions accelerated by heating or contact with water reactive materials, such as concentrated alkalis, combustible material, cyanide, sulfide, oxidizing material, copper, brass, bronze, alkalis, combustible material, cyanide, sulfide, oxidizing material, copper, brass, bronze.

SECTION 6 - PREVENTIVE MEASURES

N/Ap : not applicable

N/Av : not available

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Protective gloves: wear neoprene, nitrile, PVC or natural rubber gloves.

Eye protection: for handling in a closed system, wear safety glasses with side shields. Add full face shield when pouring liquid. For leak, spill or other emergency, wear chemical safety goggles and face shield. Do not wear contact lenses.

Respiratory protection: none required if handled in closed ventilation system. Where required (leak, spill, open handling of liquid), use NIOSH approved chemical cartridge respirator for acid gas below 50 ppm. For gas above 50 ppm or mist, use NIOSH approved self contained breathing apparatus or air supplied respirator, both with full face pieces.

Other protective equipment: for handling in a closed ventilation system use protective apron of neoprene or NBR. For unusual situations (leak, spill, emergency), wear acid resistant full protective clothing including boots. Remove and wash contaminated.

Engineering controls: handling (bottles) should be done in closed ventilation system (ex. Exhaust hood). Ventilation in area of heavy handling (cases, drums carboys); provide mechanical ventilation sufficient to reduce vapour or mist below permissible levels. Open processing equipment may require local exhaust systems. All must be corrosion resistant. Provide eye wash and quick drench facilities in areas of use.

Procedures to be followed in case of spill or leak: keep upwind or provide optimum ventilation. Small spills and residues can be neutralized with alkalis, such as soda ash or lime. This will release carbon dioxide, so use caution. Large spills should be contained and if not recoverable, then diluted with water or flushed to holding area and neutralized. Do not flush to sewer or surface waters.

Waste disposal: dispose of neutralized waster consistent with requirements of Local and / or Provincial waster disposal authorities.

Handling and storage procedures: store in dry, well-ventilated area, away form heat, sparks, or open flames and out of the sun. Do not store with oxidizing agents or other incompatible materials. Protect from physical damage and keep containers closed and upright. Do not store at temperatures above 38°C.

SPECIAL SHIPPING INFORMATION:

- Shipping name HYDROXIDE POTASSIUM
- Class / Division UN 1814
Class 8
Packing group II

SECTION 7 - TOXICOLOGICAL PROPERTIES

Skin contact/absorption: corrosive. Can cause redness, pain, and severe skin burns. Concentrated solutions cause deep ulcers and discolour skin.

Eye contact: corrosive. Vapours are irritating and may cause damage to the eyes. Contact may cause severe burns and permanent eye damage.

Inhalation: corrosive. Inhalation of vapours can cause coughing, chocking, inflammation of the nose, throat, and upper respiratory tract, and in severe cases, pulmonary oedema, circulatory failure, and death.

Ingestion: corrosive. Swallowing hydrochloric acid can cause immediate pain and burns of the mouth, throat, oesophagus and gastro-intestinal tract. May cause nausea, vomiting, and diarrhoea. Swallowing may be fatal.

Acute/chronic exposure effects: moderately toxic. Prolonged or repeated low level exposure may cause teeth erosion and dermatitis.

| | |
|---------------------------|------------------------------|
| Exposure limit | ACGIH TLV – CEILING to 2 ppm |
| Carcinogenicity | N/Ap |
| Teratogenicity | N/Av |
| Synergistic products | N/Av |
| Irritancy of product | N/Av |
| Short term exposure limit | N/Av |
| Sensitization to product | N/Av |
| Mutagenicity | N/Av |
| Reproductive toxicity | N/Av |

SECTION 8 - FIRST AID MEASURES

Skin: immediately flush with water, removing contaminated clothing. Do not use chemical antidotes. Continue deluge showering for at least 15 minutes. Get medical evaluation. Speed is essential.

Eyes: immediately flush with water holding eyelids apart. Continue flushing 20 to 30 minutes. Do not use chemical antidotes. Speed is essential. Get medical attention.

Inhalation: immediately remove patient to fresh air. If breathing has stopped, give artificial respiration. Get medical attention.

Ingestion: immediately give 2 to 3 glasses of water or milk, repeating if vomiting. However, do not induce vomiting. Get medical attention. If unconscious or in convulsions, take immediately to a hospital. Do not attempt to induce vomiting or give anything by mouth.

Note to physician (including antidotes): inhalation; exposure should be treated symptomatically and supportively. In case of skin contamination; a mild alkaline solution may be used to neutralize acid. In case of skin contamination; irrigate with water or normal saline. Avoid use of topical steroids and/or anaesthetics. If ingestion occurs; avoid use of carbonates and bicarbonates as they release CO₂ which may cause gastric tension and rupture. Neutralization of ingested acid may be accomplished by using aluminum hydroxide gel or milk of magnesia. Subsequently, treatment should be symptomatic and supportive.

SECTION 9 - OTHER INFORMATION

Revised by: ICC The Compliance Center Inc, for Les Produits Brabs Inc.

Telephone number: (514) 636-8146 OU 1-866-910-9669

MSDS preparation/review date: January 27, 2012

Abbreviations:

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|-------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| NIOSH | National Institute for Occupational Safety and Health |
| TLV | Threshold Limit Value |
| TMD | Règlement sur le transport de marchandises dangereuse au Canada |
| TWA | Time Weighted Average |
| WHMIS | Workplace Hazardous Materials Information System |
| STEL | Short-term Exposure Limit |

References:

1. Manufacturer'/suppliers' MSDS.
2. Documents provided by the «Répertoire toxicologique de la CSST».
3. Canadian Centre for Occupational Health and Safety, CHEMINFO, 2003.

DISCLAIMERS

The manufacturer guarantees that this high quality product has been prepared in conformity with the description shown in this technical brochure as well as those shown on the labels. Manufacturer's guarantee is restricted to the quality of the product and is limited to the replacement or reimbursement of the said product upon proof of purchase. This product will give a total satisfaction if stored and used in accordance with manufacturer's recommendations. No other guarantee or condition, express or implied, statutory or otherwise, is given

Department technical ICC The Compliance Center Inc