MATERIAL SAFETY DATA SHEET

PRODUCT: 151:

GENERIC BRAKE CLEANER

Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER

INDUSTRIAL LUBRICANTS & PRODUCTS
3337 N. GEORGE ST. EXT. • R.O. BOX 507
EMIGSVILLE, PA. 17319-0507
717-767-8457

PRODUCT NAME

1516-10-102 76320 BRAKE CLEANER 45%VOC 425G

CHEMICAL FAMILY

HYDROCARBONS.

MOLECULAR WEIGHT

NOT APPLICABLE.

TRADE NAMES & SYNONYMS

1516-10-102 76320 BRAKE CLEANER 45%VOC 425G

PRODUCT USES

DEGREASER/CLEANER.

FORMULAS/AS BOOK #

FX 10-141.

Section 02: COMPOSITION/INFORMATION INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>%</th>
<th>Exposure Limit</th>
<th>C.A.S.#</th>
<th>LD50, Route, Species</th>
<th>LC50 Route, Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACETONE</td>
<td>35-65</td>
<td>750 ppm</td>
<td>67-64-1</td>
<td>&gt;9750 mg/kg ORAL - RAT</td>
<td>&gt;16,000 ppm (4 hr) INHAL - RAT</td>
</tr>
<tr>
<td>HEXANE</td>
<td>35-65</td>
<td>50 ppm</td>
<td>110-84-3</td>
<td>17,300 mg/kg ORAL-RAT</td>
<td>48,600 mg/kg INHAL-MOUSE</td>
</tr>
</tbody>
</table>

Section 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:

INGESTION: MAY CAUSE HEADACHE, NAUSEA, VOMITING AND WEAKNESS.

INHALATION: INHALATION OF SOLVENTS MAY CAUSE IRRITATION. PROPELLANT IS A SIMPLE ASPHYXIANT.

EYE CONTACT: MAY CAUSE IRRITATION.

SKIN ABSORPTION: MAY BE ABSORBED BY THE SKIN.

SKIN CONTACT: MAY CAUSE IRRITATION.

EFFECTS OF ACUTE EXPOSURE: DIZZINESS, NAUSEA, IRRITATION TO SKIN & EYES.

EFFECTS OF CHRONIC EXPOSURE: SOLVENTS MAY CAUSE DERMATITIS.

EXPOSURE LIMIT OF MATERIAL: SEE SECTION 2.

Section 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURE: IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER. IF INGESTED, DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION.

Section 05: FIRE FIGHTING MEASURES

AUTO IGNITION TEMPERATURE (°C): 225-465.

FLAMMABILITY: WATER FROM FOGGING NOZZLES MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT BURSTING IF EXPOSED TO EXTREME TEMPERATURES. FULL PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARATUS SHOULD BE WORN IN A FIRE INVOLVING THIS MATERIAL.

EXTINGUISHING MEDIA: EXCESSIVE HEAT, SPARKS AND OPEN FLAME.

EXPLOSION DATA: WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.

HAZARDOUS COMBUSTION PRODUCTS: HYDROCARBON FLAMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
Section 05: FIRE FIGHTING MEASURES

CLASSIFIED AS: >100cm.
FLASHPOINT (C), TAG CLOSED-CUP: YES.
LOWEST KNOWN VALUE IS ACETONE @ -18C.

Section 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL: REMOVE ALL SOURCES OF IGNITION. USE AN INERT ABSORBENT MATERIAL. VENTILATE AREA. PREVENT FROM ENTERING A WATERCURSE.

Section 07: HANDLING AND STORAGE

STORAGE NEEDS: KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES.
ENGINEERING CONTROLS: VENTILATION - LOCAL (MECHANICAL IF USED INDOORS ON A CONTINUOUS BASIS).
HANDLING PROCEDURES AND EQUIPMENT: STORE IN A COOL, WELL VENTILATED AREA NOT TO EXCEED 55 DEG C.
SYNERGISTIC MATERIALS: NONE KNOWN.

Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

GLOVES/TYPE: WEAR CHEMICAL RESISTANT GLOVES.
RESPIRATORY/TYPE: IF USED INDOORS ON A CONTINUOUS BASIS, USE OF A CARTRIDGE TYPE RESPIRATOR (NIOSH/MSHA 2% OR EQUIVALENT) IS RECOMMENDED.
EYE/TYPE: SAFETY GLASSES.
FOOTWEAR/TYPE: NOT NORMALLY REQUIRED.
OTHER/TYPE: NOT REQUIRED.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: AEROSOL.
APPEARANCE: CLEAR, COLOURLESS.
ODOR: SOLVENT ODOUR.
ODOR THRESHOLD: NOT AVAILABLE.
VAPOUR PRESSURE (PSIG): AEROSOL
@ 20C: 65-75.
BOILING POINT (°C): 67-149.
EVAPORATION RATE: GREATER THAN 1.
n-BUTYL ACETATE: = 1
VAPOUR DENSITY (AIR=1): GREATER THAN 1.
SOLUBILITY IN WATER (g/L 20°C): NOT AVAILABLE.
PH: NOT APPLICABLE.
SPECIFIC GRAVITY (AQUEOUS): 0.75-0.85.
SPECIFIC GRAVITY (AEROSOL): 0.99-1.00.

Section 10: STABILITY AND REACTIVITY

HAZARDOUS PRODUCTS OF DECOMPOSITION: HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
CHEMICAL STABILITY: UNDER NORMAL CONDITIONS.
NO, WHICH CONDITIONS?: NOT APPLICABLE.
COMPATIBILITY WITH OTHER SUBSTANCES: STRONG OXIDIZING AGENTS.
NO, WHICH OTHERS?: NOT APPLICABLE.
REACTIVITY CONDITIONS: WILL NOT OCCUR.

Section 11: TOXICOLOGICAL INFORMATION

REPRODUCTIVE EFFECTS: HIGH EXPOSURES TO N-Hexane have been shown to affect embryofetal development. The significance of this finding to humans is not known.
CHEMICAL STABILITY: N-Hexane - Exposure to N-Hexane can result in peripheral neuropathies. The initial symptoms are symmetrical sensory numbness and paresthesias of distal portions of the extremities. Motor weakness is typically observed in muscles of the toes and fingers but may also involve muscles in the arms, thighs and forearms. The onset of these symptoms may be delayed for several months to a year after the beginning of exposure. Other neurotoxic effects of N-Hexane include CNS effects such as dizziness and headache, and skin effects such as dryness and irritation.
IRRITATION OF MATERIAL: Unknown.
SENSITIZING CAPABILITY OF MATERIAL: Unknown.
CARCINOGENICITY/MUTAGENICITY: Unknown.

TOXICITY TESTS CARRIED OUT FOR CHRONIC EFFECTS AND MUTAGENICITY HAVE BEEN NEGATIVE. THE RELEVANCE OF THIS FINDING TO HUMANS IS UNCERTAIN. IARC HAS CLASSIFIED ETHYLBENZENE AS A POSSIBLE HUMAN CARCINOGEN.
### Section 11: Toxicological Information

**Teratogenicity:** No information is available and no adverse teratogenic effects are anticipated.

### Section 12: Ecological Considerations

**Environmental:** Not available.

### Section 13: Disposal Considerations

**Waste Disposal:** Do not puncture or incinerate containers, even when empty. Dispose of in accordance with local, provincial, and federal regulations.

### Section 14: Transportation Information

- **D.O.T. Proper Shipping Name:** Flammable Liquid. N.O.S.
- **D.O.T. Hazard Class:** 3
- **D.O.T. I.D. No.:** UN1993
- **D.O.T. Placard:** 3

### Section 15: Regulatory Information

#### Canadian Regulations:
- **WHMIS Classification (CNFC Section 5.3.5):**
- **CEPA (Canadian Environmental Protection Act):** All substances in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

#### U.S. Regulations:
- **HMIS Rating Health:** 2 Moderate Hazard.
- **HMIS Rating Flammability:** 4 Severe Hazard.
- **HMIS Rating Reactivity:** 0 Minimal Hazard.
- **HMIS Rating Personal Protection:** Level 3.
- **NFPA Code 30B:**
- **SARA 313 Information:** This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. Chemical Name:

  - **Chemical Name:** N-Hexane

#### California Proposition 65:
- **Warning:** This product contains chemicals known to the state of California to cause cancer and birth defects, or other reproductive harm.

#### TSCA (Toxic Substances Control Act):
- All component of this product are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

**Aerosol Percent VOC (w/v):** <45

### Section 16: Other Information

**Notice from Osborn International:** The information on this Material Safety Data Sheet is provided by Osborn International free of charge. While believed to be reliable, it is intended for use by skilled persons at their own risk. Osborn International assumes no responsibility for events resulting or damages incurred from its use. The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

**Prepared By:** Technical Services

**Preparation Date:** Oct 10, 2010