PRODUCT: 10251-01-015 JIG1603 JIG-A-LOO 400G

Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER ........................................ MANUFACTURED FOR:
JIG-A-LOO INC. 316-2 Knowlton Rd, Brome Lake, Qc JOE 1V0 (450-243-1500)
For Chemical Emergency
Spill Leak Fire Exposure or Accident
Call Canutec Day or Night
DOMESTIC NORTH AMERICA 613-947-5048
INTERNATIONAL, CALL 613-947-5048 (collect calls accepted)

PRODUCT NAME........................................ 10251-01-015 JIG1603 JIG-A-LOO 400G
CHEMICAL FAMILY................................. CHLORINATED HYDROCARBON.
MOLECULAR WEIGHT............................... NOT APPLICABLE.
CHEMICAL FORMULA.............................. MIXTURE.
TRADE NAMES & SYNONYMS..................... 10251-01-015 JIG1603 JIG-A-LOO 400G
RECOMMENDED PRODUCT USES............... LUBRICANT.
FORMULATION NUMBER........................... 004-1-167-B.
FORMULA/LAB BOOK #.............................. 99-1882B.

Section 02: COMPOSITION/INFORMATION INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>%</th>
<th>Exposure Limit</th>
<th>C.A.S.#</th>
<th>LD/50, Route,Species</th>
<th>LC/50 Route,Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYLENE CHLORIDE</td>
<td>30-60</td>
<td>50 ppm</td>
<td>75-09-2</td>
<td>2100 mg/kg ORAL - RAT</td>
<td>88,000 mg/m 3 (1/2 hr) INHAL - RAT</td>
</tr>
<tr>
<td>PERCHLOROETHYLENE</td>
<td>10-30</td>
<td>25 ppm</td>
<td>127-18-4</td>
<td>2629 mg/kg ORAL - RAT</td>
<td>5200 ppm (4 Hr) INHAL - MOUSE</td>
</tr>
<tr>
<td>SILICONE (Polydimethyl</td>
<td>1-5</td>
<td>NOT AVAILABLE</td>
<td>63148-62-9</td>
<td>NOT AVAILABLE</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>Siloxane)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROPANE</td>
<td>5-10</td>
<td>1000 ppm</td>
<td>74-98-6</td>
<td>&gt;5000 mg/kg DERMAL-RABBITS</td>
<td>NOT AVAILABLE</td>
</tr>
<tr>
<td>ISOBUTANE</td>
<td>7-13</td>
<td>1000 ppm</td>
<td>75-28-5</td>
<td>NOT APPLICABLE</td>
<td>142,500 ppm (4h) INHAL - RAT</td>
</tr>
</tbody>
</table>

Section 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
INGESTION........................................ MAY CAUSE HEADACHE, NAUSEA, VOMITING AND WEAKNESS.
INHALATION........................................ METHYLENE CHLORIDE VAPOURS CAN READILY ACCUMULATE IN POORLY VENTILATED AREAS AND CAN CAUSE UNCONSCIOUSNESS. PROPPELLANT IS A SIMPLE ASPHYXIANT.
EYE CONTACT..................................... MAY CAUSE IRRITATION.
SKIN ABSORPTION................................ REPEATED CONTACT MAY CAUSE DERMATITIS IN SENSITIVE INDIVIDUALS.
SKIN CONTACT................................... METHYLENE CHLORIDE-PROLONGED OR REPEATED EXPOSURE MAY CAUSE SKIN IRRITATION.
EFFECTS OF ACUTE EXPOSURE............... METHYLENE CHLORIDE OVEREXPOSURE MAY LEAD TO CENTRAL NERVOUS SYSTEM DEPRESSION AND CARDIAC SENSITIZATION.
EFFECTS OF CHRONIC EXPOSURE.......... METHYLENE CHLORIDE MAY HAVE CENTRAL NERVOUS SYSTEM EFFECTS.
PERCHLOROETHANE - PROLONGED EXPOSURE MAY CAUSE SKIN CRACKING AND DERMATITIS. REPEAT EXPOSURE MAY CAUSE LIVER AND KIDNEY DAMAGE, DEPRESSION, LETHARGY, CARDIAC, ARRHYTHMIA, AND REDUCED FERTILITY AT BELOW THE LD50.
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 AFFECTED BY INHALATION OF VAPOUR OR SPRAY MIST, REMOVE TO FRESH AIR. IF SWALLOWED; DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION.
**Section 05: FIRE FIGHTING MEASURES**

**AUTO IGNITION TEMPERATURE (°C)**

NOT AVAILABLE.

**SPECIAL PROCEDURES**

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

**FLAMMABILITY**

FLAMMABLE.

**IF YES, UNDER WHICH CONDITIONS?**

EXCESSIVE HEAT, SPARKS AND OPEN FLAME.

**EXTINGUISHING MEDIA**

WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.

**UPPER FLAMMABLE LIMIT**

22.

(% BY VOLUME)

**LOWER FLAMMABLE LIMIT**

1.9.

(% BY VOLUME)

**EXPLOSION DATA**

SENSITIVITY TO STATIC DISCHARGE

NOT APPLICABLE.

SENSITIVITY TO IMPACT

NOT APPLICABLE.

**HAZARDOUS COMBUSTION PRODUCTS**

POSSIBLE PHOSGENE OVER 250 DEG C, CHLORINE GAS, HYDROCHLORIC ACID, HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.

**AEROSOL FLAME PROJECTION**

CLASSIFIED AS: 15 - 45cm.

FLASHBACK

NONE.

FLASH POINT(°C), TAG CLOSED-CUP

-40F BASED ON PROPANE/ISOBUTANE.

**Section 06: ACCIDENTAL RELEASE MEASURES**

**LEAK/SPILL**

REMOVE ALL SOURCES OF IGNITION. USE AN INERT ABSORBENT MATERIAL, AND NON-SPARKING TOOLS. VENTILATE AREA. PREVENT FROM ENTERING A WATERCOURSE.

**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 50 DEG C.

**SYNERGISTIC MATERIALS**

NONE KNOWN.

**Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**GLOVES/TY**

WEAR CHEMICAL RESISTANT GLOVES.

**RESPIRATORY/TY**

IF USED INDOORS ON A CONTINUOUS BASIS, USE OF A CARTRIDGE TYPE RESPIRATOR (NIOSH/MSHATC 23C OR EQUIVALENT) IS RECOMMENDED.

**EYE/TYPE**

SAFETY GLASSES.

**FOOTWEAR/TY**

NOT NORMALLY REQUIRED.

**OTHER/TY**

NOT REQUIRED.

**Section 09: PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE**

AEROSOL.

**APPEARANCE**

CLEAR LIQUID.

**ODOR**

CHLORINATED HYDROCARBON.

**ODOR THRESHOLD**

NOT AVAILABLE.

**VAPOUR PRESSURE(PSIG)-AEROSOL@ 20 C**

30 - 40.

**BOILING POINT (°C)(CONC)**

39.8-121.

**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 (LIQUID)**

1.37-1.41.

**COEFFICIENT OF WATER/OIL DIST**

NOT AVAILABLE.

**FREEZING POINT: (°C)**

NOT AVAILABLE.

**AEROSOL PERCENT VOLATILE**

97-98.

(by weight)

**AEROSOL PERCENT VOC (w/w)**

1.03-1.07.

(by weight)
Section 10: STABILITY AND REACTIVITY

HAZARDOUS PRODUCTS OF DECOMPOSITION: POSSIBLE PHOSGENE OVER 250 DEG C, CHLORINE GAS, HYDROCHLORIC ACID, HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.

CHEMICAL STABILITY:
YES.

NO, WHICH CONDITIONS? UNDER NORMAL CONDITIONS.

COMPATIBILITY WITH OTHER SUBSTANCES:
NO, WHICH ONES? STRONG OXIDIZING AGENTS.

REACTIVITY CONDITIONS? NOT APPLICABLE.

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

Section 11: TOXICOLOGICAL INFORMATION

REPRODUCTIVE EFFECTS: NO INFORMATION IS AVAILABLE AND NO ADVERSE REPRODUCTIVE EFFECTS ARE ANTICIPATED.

IRRITANCY OF MATERIAL: SKIN/EYE IRRITANT.

SENSITIZING CAPABILITY OF MATERIAL: UNKNOWN.

CARCINOGENICITY OF MATERIAL: METHYLENE CHLORIDE HAS BEEN LISTED AS A POTENTIAL CARCINOGEN BY IARC. PERCHLOROETHYLENE HAS BEEN LISTED AS A POTENTIAL CARCINOGEN BY IARC.

TERATOGENICITY: NO INFORMATION IS AVAILABLE AND NO ADVERSE TERATOGENIC EFFECTS ARE ANTICIPATED.

MUTAGENICITY: NO INFORMATION IS AVAILABLE AND NO ADVERSE MUTAGENIC EFFECTS ARE ANTICIPATED.

Section 12: ECOLOGICAL CONSIDERATIONS

ENVIRONMENTAL: PERCHLOROETHYLENE-THE LC50/96 HOUR VALUES FOR FISH ARE BETWEEN 10 AND 100mg/l. THIS MATERIAL IS EXPECTED TO BE TOXIC TO AQUATIC LIFE.

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

T.D.G. CLASSIFICATION: CONSUMER COMMODITY (AEROSOLS, UN1950, CLASS 2.1 (6.1)).

D.O.T. CLASSIFICATION: CONSUMER COMMODITY, ORM-D.


ID Number: UN1950.

IMDG/IMO: CONSUMER COMMODITY/LIMITED QUANTITY. AEROSOLS, FLAMMABLE.

CANADIAN REGULATIONS:
WHMIS CLASSIFICATION: A,B5,D1B,D2A,D2B.

CNFC SECTION 3.3.5: LEVEL 1.

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.

NFPA CODE 30B: LEVEL 1.
Section 15: REGULATORY INFORMATION

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:

- **CAS #:** 127-18-4
  - **Chemical Name:** PERCHLOROETHYLENE (TETRACHLOROETHYLENE)

- **CAS #:** 75-09-2
  - **Chemical Name:** METHYLENE CHLORIDE (DICHLOROMETHANE)

CALIFORNIA PROPOSITION 65: THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY WITH THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986:

- **CAS #:** 127-18-4
  - **Chemical Name:** TETRACHLOROETHYLENE

- **CAS #:** 75-09-2
  - **Chemical Name:** METHYLENE CHLORIDE (DICHLOROMETHANE)

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.

VOC (w/w%): 20-21.

Section 16: OTHER INFORMATION

NOTICE FROM JIG-A-LOO INC: THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET IS PROVIDED BY JIG-A-LOO INC. FREE OF CHARGE. WHILE BELIEVED TO BE RELIABLE, IT IS INTENDED FOR USE BY SKILLED PERSONS AT THEIR OWN RISK. JIG-A-LOO INC. 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: Regulatory Affairs
PREPARATION DATE: Mar11/14