

FSC: 9150  
MSDS Date: 06/15/1998  
MSDS Num: CHVHK  
LIIN: 00N089540  
Product ID: HALOVAC 190 OIL  
MFN: 01  
Responsible Party  
Cage: 07644  
Name: HALOCARBON PRODUCTS CORP  
Box: 661  
City: RIVER EDGE NJ 07661  
Info Phone Number: 201-262-8899  
Emergency Phone Number: 803-278-3504  
Preparer's Name: LEE G SPRAGUE  
Published: Y

### **Contractor Summary**

Cage: 07644  
Name: HALOCARBON PRODUCTS CORPORATION  
Address: 887 KINDERKAMACK RD  
City: RIVER EDGE NJ 07661  
Phone: 201-262-8899

### **Ingredients**

Cas: 9002-83-9  
RTECS #: MG7104000  
Name: POLYCHLOROTRIFLUOROETHYLENE  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

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Name: SUPDAT: THE OBSERVED LIVER TOX IS BELIEVED TO BE SPECIFIC FOR RODENTS  
ANDamp; NOT RELEVANT TO HUMANS. ALL MUTAGENICITY  
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Name: ING 2: STUDIES WERE NEGATIVE. HALOCARBON OILS ARE NOT IRRITATING TO  
SKIN  
BUT SIMPLE SKIN PROT SHOULD BE USED  
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Name: ING 3: TO PREVENT RPTD EXPOSURE ANDamp; POSSIBILITY OF SENSITIZATION.  
IN  
ABSENCE OF CHRONIC TOX DATA ON THIS PROD,  
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Name: ING 4: EXPOSURE TO PROD ANDamp; ITS VAP SHOULD BE AVOIDED SINCE POTNTL  
FOR  
HUMAN TOX CANNOT BE RULED OUT. PROPER VENT  
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Name: ING 5: AND WORK PRACTICES SHOULD BE EMPLOYED.

### **Health Hazards Data**

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.  
Route Of Entry Inds - Inhalation: NO  
Skin: YES  
Ingestion: NO  
Carcinogenicity Inds - NTP: NO  
IARC: NO  
OSHA: NO  
Effects of Exposure: ACUTE: FROM ANIMAL STUDIES, SIGNS OF FLUORIDE POISONING  
MAY BE EXPECTED. THESE INCL NAUS, SHORTNESS OF BREATH ANDamp; LOSS OF  
APPETITE.

RELATED OIL (HALOCARBON 27) CAUSED NO DEATHS IN RATS DOSED DAILY FOR 2 1 DAYS

W/2.5 G/KG ORALLY. SYMPS ATTRIBUTED TO FLUORIDE POISONING BY METABOLISM IN LIVER WERE NOTED. (EFTS OF OVEREXP)

Explanation Of Carcinogenicity: NOT RELEVANT.

Signs And Symptions Of Overexposure: HLTH HAZ: ENLARGEMENT OF LIVERS ANDamp; KIDNEYS IN TREATED ANIMALS SUPPORT THIS CONCLUSION. EXTENSIVE STUDIES HAVE BEEN CONDUCTED ON LIGHTER, MORE VOLAT HALOCARBON OILS. BASED ON ALL AVAIL DATA IN 3 SPECIES OF ANIMALS, LIMITED EXPOS TO HALOCARBON OILS SHOULD NOT BE

HARMFUL TO ANY PORTION OF HUMAN ANATOMY. STUDIES (SUPDAT)  
Medical Cond Aggravated By Exposure: NONE KNOWN.

First Aid: INHAL: REMOVE TO FRESH AIR. SUPPORT BREATHING (GIVE O\*2/ARTF RESP) (FP N). SKIN: WASH W/SOAP AND WATER. NO SKIN EFFECTS EXPECTED. EYE: FLUSH W/WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL HELP. INGEST: DILUTE BY DRINKING LARGE QUANTITIES OFWATER. IF VOMITING OCCURS ADMINISTER MORE WATER.

SEEK MEDICAL HELP.

### **Handling and Disposal**

Spill Release Procedures: SPILLS MAY BE PICKED UP WITH AN ABSORBENT SUCH AS VERMICULITE AND HELD IN COVERED CONTAINER FOR DISPOSAL.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: MAY BE INCINERATED BY LICENSED WASTE DISPOSAL COMPANY.

OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Handling And Storage Precautions: NONE SPECIFIED BY MANUFACTURER.

Other Precautions: NONE SPECIFIED BY MANUFACTURER.

### **Fire and Explosion Hazard Information**

Flash Point Text: NONE

Extinguishing Media: NON-FLAMMABLE. USE AGENT SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures: USE NIOSH APPROVED SCBA ANDamp; FULL PROTECTIVE EQUIPMENT (FP N).

Unusual Fire/Explosion Hazard: THERMAL DECOMPOSITION PRODUCTS ARE TOXIC AND CORROSIVE.

### **Control Measures**

Ventilation: GENERAL ROOM VENTILATION PLUS LOCAL EXHAUST AT POINT OF EMISSION.

Protective Gloves: IMPERVIOUS GLOVES.

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGLES (FP N).

Other Protective Equipment: ANSI APPRVD EYE WASH AND DELUGE SHOWER (FP N).

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health: MATLS TO AVOID: AMINES, LIQ FLUORINE ANDamp; LIQ

CHLORINE TRIFLUORIDE. HAZ DECOMP PROD: AMTS @ LOWER TEMPS. THEREFORE, MAX SAFE OPERATING TEMP REC IS 200C ANDamp; MAX SHORT-TERM TEMP REC IS 260C IN SCRUPULOUSLY C LEAN SYSTEMS. EFTS OF OVEREXP: CONDUCTED BY AIR FORCE HAVE DEMONSTRATED LIVER TOX IN RODENTS BUT NOT IN PRIMATES.

### **Physical/Chemical Properties**

B.P. Text: DECOMPOSES

Vapor Pres: ANDlt;0.1

Spec Gravity: 2 (H\*20 =1)

Evaporation Rate ANDamp; Reference: NOT KNOWN

Solubility in Water: NEGLIGIBLE

Appearance and Odor: COLORLESS OIL WITH FAINT ODOR.

### **Reactivity Data**

Stability Indicator: YES

Materials To Avoid: ALUMINUM THREADED CONNECTIONS WHERE GALLING AND SEIZURE MAY

INITIATE RXN. REACTS W/METALS LIKE SODIUM AND POTASSIUM, (SUPDAT)

Hazardous Decomposition Products: OR BYPRODS: DECOMP TO TOXIC, NON-SLUDGE FORMING VOLATILES OCCURS RAPIDLY @ 325C, NOTICEABLY @ 300C AND IN LESSER (SUPDAT)

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: NOT RELEVANT.

**Toxicological Information**

**Ecological Information**

**MSDS Transport Information**

**Regulatory Information**

**Other Information**

**HAZCOM Label**

Product ID: HALOVAC 190 OIL

Cage: 07644

Company Name: HALOCARBON PRODUCTS CORPORATION

Street: 887 KINDERKAMACK RD

City: RIVER EDGE NJ

Zipcode: 07661

Health Emergency Phone: 803-278-3504

Label Required IND: Y

Date Of Label Review: 08/28/1998

Status Code: C

Label Date: 08/28/1998

Origination

Chronic Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: WARNING

Respiratory Protection IND: YES

Health Hazard: Slight

Contact Hazard: Moderate

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: ACUTE: FROM ANIMAL STUDIES, SIGNS OF FLUORIDE POISONING

MAY BE EXPECTED. THESE INCLUDE NAUSEA, SHORTNESS OF BREATH ANDamp; LOSS OF APPETITE. CHRONIC: POSSIBLE LIVER TOXICITY BASED ON LABORATORY ANIMAL TESTES. POSSIBLE SENSITIZATION.