IDENTITY ( AS USED ON LABEL AND MANUF. LITERATURE )

CARGILLE IMMERSION OIL
TYPES A & B CODE 1248

NOTE: BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

SECTION 1 - PURPOSE

RESPONSIBLE FOR ITS USE SHALL MAKE HIS OR HER OWN DETERMINATION OF THE SUITABILITY OF THE MATERIAL FOR HIS OR HER PARTICULAR PURPOSE.

CONDITIONS OF INTENDED AND NORMAL USE: ( ABBR. C.I.U.) AS A MICROSCOPE IMMERSION OIL AT NORMAL ROOM PRESSURE ( 760 mm hg), TEMPERATURE 45 °F TO 104 °F IN A NON MISTED / NON AIRBORN STATE IN A ROOM HAVING NORMAL AIR CHANGES, ( 2 ) / HR., IN A TRAINED AND SUPERVISED LABORATORY/INDUSTRIAL SETTING USING STANDARD GL/ GM PROCEDURES. SEE SECTIONS 7 AND 8.

SECTION 2 - HAZARDOUS INGREDIENTS

OSHA PEL

ACGIH TLV
T.W.A.

TRADE SECRET

HYDROGENATED TERPHENYL

N.E.

5 mg / CUBIC METER *

TRADE SECRET

TERPHENYL

5 mg / CUBIC METER *

5 mg / CUBIC METER *

TRADE SECRET

NATURAL HYDROCARBONS

5 mg / CUBIC METER *

5 mg / CUBIC METER *

IF MISTED

TRADE SECRET

POLYBUTENES

5 mg / CUBIC METER *

5 mg / CUBIC METER *

IF MISTED

*PEL CEILINGS & TLV T.W.A,s IF ANY SHOULD NOT OCCUR IF C.I.U. AND SECTIONS 7 & 8 FOLLOWED.

NOTE: PRODUCT NORMALLY SOLD IN 1/4 OZ. TO 1 GALLON QUANTITIES. USED IN SINGLE DROP TO A FEW CUBIC CENTIMETERS PER APPLICATION. SEE REQUISITIONER FOR SPECIFIC QUANTITIES INVOLVED.

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT AT 760 mm Hg

340 °C

644 °F

SPECIFIC GRAVITY ( H₂O = 1 ) TEMP. 23 °C / 73 °F

.9

VAPOR PRESSURE IN mm Hg ( TEMP. )

73 °F

< 0.1

MELTING POINT

< 32 °F

VAPOR DENSITY ( AIR = 1 ) AT ( mm Hg & TEMP. )

ca 1

EVAPORATION RATE AT 760 mm Hg & 23 °C / 73 °F

ca 1

SOLUBILITY IN WATER AT ( mm Hg & TEMP. )

NIL

APPEARANCE AND ODOR

LIGHT YELLOW, SLIGHT CHARACTERISTIC ODOR

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT ( CUP METHOD USED )

> 325 °F ( 163 °C ) C.O.C.

FLAMMABLE LIMITS

LEL

N.D.F.

UEL

N.D.F.

EXTINGUISHING MEDIA

CARBON DIOXIDE, FOAM, DRY CHEMICAL OR ANY CLASS B AGENT

SPECIAL FIRE FIGHTING PROCEDURES

NONE

UNUSUAL FIRE AND EXPLOSION HAZARDS

NONE

ABBREVIATIONS: N.A. = NOT APPLICABLE; N.D.F. = NO DATA FOUND; TR.S. = TRADE SECRET; N.E. = NOT ESTABLISHED;
C.I.U. = CONDITIONS OF INTENDED USE; < = LESS THAN; > = GREATER THAN.
### SECTION 5 - REACTIVITY DATA

<table>
<thead>
<tr>
<th>STABILITY</th>
<th>UNSTABLE</th>
<th>STABLE</th>
<th>YES</th>
</tr>
</thead>
</table>

**INCOMPATIBILITY** (MATERIALS AND/OR CONDITIONS TO AVOID)

STRONG OXIDIZERS, HEAT ABOVE 150 °F

<table>
<thead>
<tr>
<th>HAZARDOUS POLYMERIZATION</th>
<th>MAY OCCUR</th>
<th>CONDITIONS TO AVOID</th>
<th>WILL NOT OCCUR</th>
<th>X</th>
<th>NONE</th>
</tr>
</thead>
</table>

### SECTION 6 - HEALTH HAZARD DATA

**ROUTE (S) OF ENTRY:**
- INHALATION?
- SKIN?
- MUCOUS MEMBRANES / EYES?
- INGESTION?

( NOT LIKELY AT C.I.U.)

<table>
<thead>
<tr>
<th>HEALTH HAZARDS (ACUTE AND CHRONIC)</th>
<th>NONE KNOWN AT C.I.U.</th>
</tr>
</thead>
</table>

**CARCINOGENICITY LISTED:**
- NTP?
- IARC MONOGRAPHS?
- OSHA CARCINOGEN?

| NO | NO | NO |

**SIGNS AND SYMPTOMS OF EXPOSURE**

OILY FEEL, IF LIQUID IS MISTED OR ABOVE 150 °F ( NOT A C.I.U.) HEADACHES AND NAUSEA POSSIBLE.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

N.D.F.

**EMERGENCY AND FIRST AID PROCEDURES:** INCLUDE POSSIBLE MATERIAL THAT MAY HAVE BEEN MIXED WITH LIQUID DURING USE.

**INHALATION** — ( NOT LIKELY AT C.I.U.) IF CONCERN ARISES, REMOVE TO FRESH AIR.

**SKIN AND CLOTHES** — PROMPT SOAP AND WATER WASH.

**EYES** — FLUSH WITH WATER, SLIGHT TEMPORARY IRRITATION POSSIBLE (CONSULT PHYSICIAN).

**INGESTION** — LOW ORDER OF TOXICITY, FIRST AID NORMALLY NOT NEEDED (CONSULT PHYSICIAN).

### SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE — FOLLOW C.I.U. SEE SECTION 1

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

ABSORB, PLACE IN PLASTIC (POLYETHYLENE OR POLYPROPYLENE) CONTAINER, CAP OR TWIST TIE CLOSURE (SEE SECTION 8).

**WASTE DISPOSAL METHOD:**

ALL CHEMICAL DISPOSALS MUST BE IN ACCORDANCE WITH CURRENT LOCAL, STATE, AND FEDERAL REGULATIONS.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

STORE BETWEEN 65 °F AND 90 °F (18 °C AND 32 °C)

**OTHER PRECAUTIONS**

AVOID CONTINUAL DIRECT SUNLIGHT, VAPORIZING OR ATOMIZING.

### SECTION 8 - CONTROL MEASURES; WHEN USED AS INTENDED (SEE SECTION 1)

**RESPIRATORY PROTECTION** (SPECIFY TYPE)

SEE "VENTILATION"

**VENTILATION**

- LOCAL EXHAUST
- MECHANICAL (GENERAL)

**PROTECTIVE GLOVES**

* SURGICAL TYPE, IF WORN

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

* EYE PROTECTION

* SPECIAL

**SPECIAL PRECAUTIONS**

N.A.

*= NOT MANDATORY EXCEPT AS GOOD LABORATORY INDUSTRIAL PRACTICES.

ALWAYS USE GOOD HYGIENIC WORK / PRACTICES AS TO HOUSEKEEPING, PERSONAL HYGIENE, USE OF CHEMICAL LAB APRON AND SPLASH GOGGLES, AVOIDANCE OF VAPORS, PROLONGED AND REPEATED SKIN CONTACT.