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CARGILLE LABORATORIES, INC.

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CATALOG #18061, 18062, 18065, 1806X, 1806Y, 19061, 19062, 19063

| IDENTITY (AS USED ON LABEL AND MANUF. LITERATURE) | NOTE: BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT |
|---|---|
| CARGILLE REFRACTIVE INDEX LIQUID | APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE |
| SERIES AA n _D = 1.400 - 1.458 | MARKED TO INDICATE THAT. |

| SECTION 1 | | | | | |
|---|---|--|--|--|--|
| MANUFACTURER'S NAME | EMERGENCY TELEPHONE NUMBER | | | | |
| CARGILLE LABORATORIES, INC. | WEEKDAY 973 - 239 - 6633 24 HR CHEMTREC 800 - 424 - | | | | |
| ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE) | TELEPHONE NUMBER FOR INFORMA 973 – 239 - 6633 | TELEPHONE NUMBER FOR INFORMATION 973 – 239 - 6633 | | | |
| 55 COMMERCE ROAD | DATE PREPARED | SUPERCEDES PRIOR DATED | | | |
| | JUNE 2, 2011 | MSDS FOR THIS MATERIAL | | | |
| CEDAR GROVE, NJ 07009 | SIGNATURE OF PREPARER (OPTIC | SIGNATURE OF PREPARER (OPTIONAL) | | | |
| | | | | | |

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CONDITIONS OF INTENDED AND NORMAL USE: (ABBR. C.I.U.) AS AN OPTICAL REFRACTIVE INDEX LIQUID AT NORMAL ROOM PRESSURE (760 mm Hg), TEMPERATURE 65 °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 | | SPECI | FIC CHEMICAL | IDENTITY INFORMA | TION |
|--|--------------------------|-------------------------|---|----------------|------------------|----------------|
| | | | OSHA PEL | ACGIH TLV | OTHER LIMITS | % (OPTIONAL) |
| HAZARDOUS COMPONENTS | (COMMON NAM | ИE (S)) | CEILING | T.W.A. | RECOMMENDED | |
| TD4.DE 05.0DET | | W/DD004DD01 | 10 5 mm / 01/P10 METER * | | 1 | 1 |
| TRADE SECRET | ALIPHATIC / ALICYCLIC I | HYDROCARBON | S 5 mg / CUBIC METER * | N.D.F. | | |
| | | | | | | |
| | | | | | | |
| | | | | | | _ |
| *PEI | L CEILINGS & TLV T.W.A.s | IF ANY SHOUL | LD NOT OCCUR IF C.I.U. AND S | ECTIONS 7 & 8 | FOLLOWED. | |
| NOTE: PROPILET NORMALLY | COLD IN 1/ 07 TO 4 07 | OLIANITITIES I | JSED IN SINGLE DROP TO A FE | W CLIDIC CENT | IMETERS DED ADD | LICATION |
| | OR SPECIFIC QUANTITIES | | JSED IN SINGLE DROP TO A FE | W COBIC CENT | INIETERS PER APP | LICATION. |
| SECTION 3 - PHYSICAL / (| | | | | | |
| | | | SPECIFIC GRAVITY (H ₂ O = ⁻¹ | C / 73 °F | | |
| >200 °C >392 °F | | 01 2011 10 GI 8 (1120 = | | < 1.0 | | |
| VAPOR PRESSURE IN mm Hg (TEMP.) | | MELTING POINT | | | | |
| | 73 °F | < 5 | | | | N.A. |
| VAPOR DENSITY (AIR = 1) AT (mm Hg & TEMP.) | | EVAPORATION RATE AT 760 | C / 73 °F | | | |
| | 760 73 °F | > 1 | (MINERAL OIL = 1) | | | ca 1 |
| 760 73 °F < 0.1% | | | APPEARANCE AND ODOR | | | |
| | | COLORLESS, ODORLI | | | | |
| SECTION 4 - FIRE AND EX | PLOSION HAZARD DATA | | | _ | | |
| FLASH POINT (CUP METHOD USED) | | FLAMMABLE LIMITS | LEL | | UEL | |
| > 250 °F (120 °C) C.O.C. | | | | D.F. | N.D.F. | |
| EXTINGUISHING MEDIA | TREAT AS PE | TROLEUM GRE | ASE / OIL FIRE, USE FOAM OR | DRY CHEMICA | L | |
| SPECIAL FIRE FIGHTING PROC | | | | | | |
| | NONE | | | | | |
| UNUSUAL FIRE AND EXPLOSION | | | | | | |
| | NONE | | | | | |
| ABBREVIATIONS: N.A. = NOT | APPLICABLE; N.D.F. = NO | O DATA FOUND | ; TR.S. = TRADE SECRET; N | .E. = NOT ESTA | ABLISHED; | |
| | NDED USE; < = LESS TH | | • | | , | |

| SECTION 5 - REACTIVITY | DATA | | _ | | | | | | |
|---|--|----------|----------------|------------------|-------------|-----------------------------|------------|--------------|--|
| STABILITY | UNSTABLE | | _ | | | | | | |
| NCOMPATIBILITY (MATERIA | STABLE ON CONDITIONS | YES | | | | | | | |
| INCOMPATIBILITY (MATERIA | .LS AND / OR CONDITIONS | 3 TO AVC | STRONG OXID | ZERS. HEAT | ABOVE 150 | ° _F | | | |
| HAZARDOUS | MAY OCCUR | | CONDITIONS | | 7.2012.00 | | | | |
| POLYMERIZATION | | | | | | | | | |
| | WILL NOT OCCUR | | | | | | | | |
| | | Х | N.A. | | | | | | |
| SECTION 6 - HEALTH HA | | | OLUB | .0 | MUOOUG | NATARDANIEO / EV | | INOCOTION? | |
| ROUTE(S)OF ENTRY: (NOT LIKELY AT C.I.U.) YES | INHALATION? | 150 °E | SKIN | | MUCOUS | S MEMBRANES / EYI SLIGHT | =S ? | INGESTION? | |
| HEALTH HAZARDS (ACUTE A | · | 130 F | SLIC | пі | | SLIGHT | | POSSIBLE | |
| TENETITINZATIOO (NOOTE) | | ONE KNO | OWN AT C.I.U., | TEMPORARY | DISCOMFO | RT MAY OCCUR IF S | PLASHED I | N EYES. | |
| | | | Í | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| OADOINOOFNIOITY LIOTED: | NTP? | | LADO | MONOGRAF | 1102 | | 00114.6 | CARCINOGEN? | |
| CARCINOGENICITY LISTED: | NIP! NO | | IARC | , MONOGRAF NO | /H5 f | | OSHA C | NO | |
| SIGNS AND SYMPTOMS OF E. | | | | 110 | | | | 110 | |
| | | ILY FEEL | L | | | | | | |
| | | | | | | | | | |
| MEDICAL CONDITIONS GENE | RALLY AGGRAVATED BY F | EXPOSU | | | | | | | |
| | | | NONE KNOWN | | | | | | |
| | | | | | | | | | |
| EMERGENCY AND FIRST AID | | | | | VE BEEN MIX | (ED WITH LIQUID DU | JRING USE. | • | |
| INHALATION — (NOT LIKELY | 'AT C.I.U.) IF CONCERN | ARISES, | , REMOVE TO F | RESH AIR. | | | | | |
| SKIN & CLOTHES - WIPE C | FF AND WASH WITH SOA | P AND W | /ATER. | | | | | | |
| EYE - FLUSH WITH WATER | IE IDDITATION EVICTO | CONCIL | T DUVEICIAN | | | | | | |
| ETE - FLOSH WITH WATEN | , IF INNITATION EXISTS, 1 | CONSUL | I FRISICIAN. | | | | | | |
| INGESTION - DO NOT INDUC | DE VOMITING. CALL PHYS | SICIAN. | | | | | | | |
| | | | | | | | | | |
| SECTION 7 - PRECAUTIO | NS FOR SAFE HANDLING | AND US | E - FOLLOW C | I.U. SEE SE | CTION 1 | | | | |
| STEPS TO BE TAKEN IN CASE | | | | | | | | | |
| ABSORB, PLACE II | N PLASTIC (POLYETHYLE | ENE OR | POLYPROPYLE | VE) CONTAIN | IER, CAP OF | R TWIST TIE CLOSU | RE (SEES | ECTION 8). | |
| WASTE DISPOSAL METHOD: | | | | | | | | | |
| WASTE DISPOSAL METHOD: | ALL CHEMICAL DISPOS | LAIS MIL | ST RE IN ACCO | SDANCE WITI | I CURRENT I | OCAL STATE AND |) EEDERAL | REGULATIONS | |
| PRECAUTIONS TO BE TAKEN | | | 31 BE IN ACCO | IDANCE WITH | TOURNENT | LOCAL, STATE, AND | / I LULNAL | REGULATIONS. | |
| | | | STO | RE BETWEEN | 65°F AN | D 90 °F (18 °C A | ND 32 °C) | | |
| | | | | | | , | , | | |
| OTHER PRECAUTIONS | | | | | | | | | |
| | AVOID CONT | INUAL D | DIRECT SUNLIGI | <u>∤T.</u> | | | | | |
| SECTION 8 - CONTROL M | TEACHDEC: WHEN HEED | AC INTE | NDED / CEE C | CTION 1) | | | | | |
| RESPIRATORY PROTECTION | | AS INTE | INDED (SEE S | ECTION 1) | | | | | |
| TILOT INTO THE THOU I CONTON | SEE "VENTII | LATION" | , | | | | | | |
| VENTILATION | LOCAL EXHAUST | | | | SPECIAL | | | | |
| | | * | | | | | N.A. | | |
| | MECHANICAL (GENE | RAL) | | | | OTHER | | | |
| | | | * | | | | N.A. | | |
| PROTECTIVE GLOVES | | | | EYE PROTE | | | | | |
| | * SURGICAL TYPE | | * | | * (| CHEMICAL SPLASH | GOGGLES | | |
| OTHER PROTECTIVE CLOTHI | | | | | | | | | |
| | ORY EXCEPT AS GOOD LAI GOOD HYGIENIC WORK / P | | | | | IYGIENE, USE OF C | HEMICAL L | AB APRON | |
| | OGGLES, AVOIDANCE OF | - VAPOR | RS, PROLONGE | O AND REPEA | ATED SKIN C | ONTACT. | | | |
| SPECIAL PRECAUTIONS | A.I. A | | | | | | | | |
| | N.A. | | | | | | | | |
| | | | | | | | | | |
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