

MATERIAL SAFETY DATA SHEET
 MAY BE USED TO COMPLY WITH
 OSHA'S HAZARD COMMUNICATION STANDARD
 CFR 1910.1200. STANDARD MUST BE
 CONSULTED FOR SPECIFIC REQUIREMENTS

Strainoptics, Inc.

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CATALOG #19507

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| IDENTITY (AS USED ON LABEL AND MANUF. LITERATURE) Strainoptics Immersion Liquid CODE 5040 n_D = 1.459 - 1.570 | 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. |
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| SECTION 1 | |
| MANUFACTURER'S NAME Strainoptics, Inc. | EMERGENCY TELEPHONE NUMBER WEEKDAY 215 - 661 - 0100 24 HR 215 - 500 - 4427 |
| ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE) 108 W. Montgomery Ave. North Wales, PA 19454 | TELEPHONE NUMBER FOR INFORMATION 215-661-0100 DATE PREPARED October 14, 2008 SIGNATURE OF PREPARER (OPTIONAL) |
| SUPERCEDES PRIOR DATED MSDS FOR THIS MATERIAL | |
| THE INFORMATION SUPPLIED IS BASED ON DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY OF ANY KIND EXPRESSED OR IMPLIED, IS MADE WITH RESPECT TO THE INFORMATION PRESENTED AND STRAINOPTICS, INC. ASSUMES NO RESPONSIBILITY FOR THE RESULTS OF THE USE OF THIS PRODUCT. THIS INFORMATION IS FURNISHED UPON THE CONDITION THAT THE PERSON 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 AN OPTICAL IMMERSION LIQUID 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 | | SPECIFIC CHEMICAL IDENTITY INFORMATION | | | |
|---|---------------------------------|--|----------------------|--------------------------|--------------|
| HAZARDOUS COMPONENTS | (COMMON NAME (S)) | OSHA PEL CEILING | ACGIH TLV T.W.A. | OTHER LIMITS RECOMMENDED | % (OPTIONAL) |
| TRADE SECRET | HYDROGENATED TERPHENYL | N.E. | 5 mg / CUBIC METER * | | |
| | TERPHENYL | 5 mg / CUBIC METER * | 5 mg / CUBIC METER * | | |
| TRADE SECRET | ALIPHATIC/ALICYCLIC HYDROCARBON | 5 mg / CUBIC METER * | N.D.F. | | |
| *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 4OZ. TO 5 GALLON QUANTITIES. USED IN SINGLE DROP TO A FEW CUBIC CENTIMETERS PER APPLICATION. SEE REQUISITIONER FOR SPECIFIC QUANTITIES INVOLVED. | | | | | |

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| SECTION 3 - PHYSICAL / CHEMICAL CHARACTERISTICS | | | |
| BOILING POINT AT 760 mm Hg > 230 °C | > 450 °F | SPECIFIC GRAVITY (H ₂ O = 1) TEMP. 23 °C / 73 °F | .88 TO 1.03 |
| VAPOR PRESSURE IN mm Hg (TEMP.) 73 °F | .5 | MELTING POINT | < 32 °F |
| VAPOR DENSITY (AIR = 1) AT (mm Hg & TEMP.) 760 73 °F | ca 1 | EVAPORATION RATE AT 760 mm Hg & 23 °C / 73 °F (MINERAL OIL = 1) | 1 |
| SOLUBILITY IN WATER AT (mm Hg & TEMP.) 760 73 °F | NIL | APPEARANCE AND ODOR OILY, LIGHT YELLOW LIQUID | |

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| SECTION 4 - FIRE AND EXPLOSION HAZARD DATA | | | |
| FLASH POINT (CUP METHOD USED) > 250 °F (120 °C) C.O.C. | FLAMMABLE LIMITS | LEL N.D.F. | UEL N.D.F. |
| EXTINGUISHING MEDIA TREAT AS PETROLEUM GREASE FIRE, USE FOAM OR DRY CHEMICAL. | | | |
| 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 | | | | |
|---|------------------------|------------------------|------------------------------------|------------------------|
| STABILITY | UNSTABLE | | | |
| | STABLE | YES | | |
| INCOMPATIBILITY (MATERIALS AND / OR CONDITIONS TO AVOID) | | | | |
| STRONG OXIDIZERS, HEAT ABOVE 150 °F | | | | |
| HAZARDOUS POLYMERIZATION | MAY OCCUR | | CONDITIONS TO AVOID | |
| | WILL NOT OCCUR | X | N.A. | |
| SECTION 6 - HEALTH HAZARD DATA | | | | |
| ROUTE (S) OF ENTRY: (NOT LIKELY AT C.I.U.) IF MISTED OR ABOVE 150 °F | INHALATION? YES | SKIN? SLIGHT | MUCOUS MEMBRANES / EYES? SLIGHT | INGESTION? POSSIBLE |
| HEALTH HAZARDS (ACUTE AND CHRONIC). | | | | |
| NONE KNOWN AT C.I.U. | | | | |
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| CARCINOGENICITY LISTED: | NTP? NO | IARC MONOGRAPHS? NO | OSHA CARCINOGEN? 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 & CLOTHES – PROMPT SOAP AND WATER WASH. | | | | |
| EYE – 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 | * | SPECIAL | N.A. |
| | MECHANICAL (GENERAL) | * | OTHER | N.A. |
| PROTECTIVE GLOVES | | EYE PROTECTION | | |
| * IF WORN, POLYETHYLENE GLOVES ARE RECOMMENDED | | * | | |
| OTHER PROTECTIVE CLOTHING OR EQUIPMENT | | | | |
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| * = 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. | | | | |
| SPECIAL PRECAUTIONS | | | | |
| N.A. | | | | |
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