



MATERIAL SAFETY DATA SHEET

TRADE NAME: Nd-350 SPIN-ON NEODYMIUM GLASS		DATE ISSUED: October 2, 2007
CHEMICAL NAME AND/OR SYNONYM: Neodymium Silicate in Alcoholic Solutions		EMERGENCY TELEPHONE NUMBER: (602) 618-8452
MANUFACTURER: Desert Silicon L.L.C. 8617 W. Cavalier Dr. Glendale, AZ., 85305		TELEPHONE NUMBER: (623) 872-8659 FAX: (623) 877-7754
HAZARDOUS INGREDIENTS		
MATERIAL OR COMPONENT/C.A.S. #	WT. %	HAZARD DATA
Neodymiumsilicate Polymer (May contain small amount of inorganic Neodymium)	0.1-4%	OSHA/TWA: 0.5 (B) mg/m ³ ACGIH/TLV: the same Oral-rat LD ₅₀ : 525 mg/kg
ETHANOL cas #64-17-5 Synonym: Ethyl alcohol/ Methyl carbinol Formula: C ₂ H ₅ OH Molecular weight: 46.08 Flash point: 12.8 C (c.c.) Flammable limits in air (vol%): 3.3-19 Aquatic toxicity rating: Tlm96: over 1000 ppm DOT classification: Flammable liquid/UN1170	40-60%	OSHA/TWA: 1000 ppm ACGIH/TLV: 1000 ppm LD ₅₀ (oral-rat): 7060 mg/kg. LC ₅₀ (ihl-rat): 20000 ppm/10 hrs.
ETHYL ACETATE cas #141-78-6 Synonym: Ethyl Ethanoate/Acetic Acid Ethyl Ester Formula: CH ₃ COOC ₂ H ₅ Molecular weight: 88.11 Flash point: -4.4 C (t.c.c.) Flammable limits in air (vol %): 2.20-11 DOT classification: /UN1173	15-25%	OSHA/TWA: 400 ppm ACGIH/TLV: 400 ppm LD ₅₀ (oral-rat): 5620 mg/kg LC ₅₀ (ihl-rat): 1600 ppm/8 hrs
PHYSICAL DATA		
MATERIAL IS: Liquid	APPEARANCE AND ODOR: Colorless, clear liquid with acidic odor	
BOILING POINT: > 86 C	SPECIFIC GRAVITY: 0.95	VAPOR DENSITY (Air = 1): 1.1
MELTING POINT: No Data	EVAPORATION RATE (BuAc = 1): 5.91	VAPOR PRESSURE (mm Hg): 97 20C
VISCOSITY: 1.05 cps		
SOLUBILITY IN WATER: Slight		

FIRE AND EXPLOSION HAZARD	
FLASH POINT: 11.1 C METHOD USED: Closed Cup	FLAMMABLE LIMITS LOWER: 6.7 UPPER: 36.5
EXTINGUISHING MEDIA: Carbon dioxide or dry chemicals	
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained, NIOSH-approved breathing apparatus and full protective clothing. Use water spray to keep fire-exposed containers cool and to reduce vapor concentrations. After fire, flush area with water to prevent re-ignition.	
REACTIVITY DATA	
STABILITY: <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	CONDITIONS TO AVOID: Not pertinent
INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizing gents, Alkaline materials	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Combustion products CO, CO ₂ , Neodymium containing vapor	
HAZARDOUS POLYMERIZATION: <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	

HEALTH HAZARD DATA	
INHALATION: Vapors, when inhaled, can irritate eyes, nose and throat. Greater exposure can produce headache and in coordination; gross exposure may result in respiratory depression and adverse (narcotic) effect on the central nervous system.	
INGESTION: May irritate or burn digestive tract, resulting in severe nausea, vomiting and abdominal pain. However, overall toxicity is estimated to be moderate to low, based on toxicity of individual components. Neodymium may produce gastro-intestinal irritation with nausea, vomiting, diarrhea and, possibly, death.	
SKIN: Material is readily absorbed through skin to product toxic effects similar to those described for inhalation. Repeated or extended contact may also cause erythema (reddening of skin) or dermatitis, resulting from a defatting action on tissue. Neodymium in some compounds, are known to cause skin and mucous membrane irritation.	
EYES: Vapor may irritate slightly. Direct liquid contact caused intense stinging and burning sensations, resulting from a defatting action on tissue. Neodymium can be a strong irritant and may become airborne by mist. Liquid may irritate strongly.	
PERMISSIBLE CONCENTRATION: AIR No OSHA/TWA or ACGIH/TLV established for this material See Hazardous Ingredients Section for values for individual components	BIOLOGICAL None established
FIRST AID MEASURES	
INHALATION: Remove to fresh air, away from flame, spark or other ignition sources. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen if qualified operator is available. Call a physician.	
INGESTION: If conscious, give 3 glasses of water or milk and induce vomiting by touching back of throat with finger. Get medical attention as soon as possible.	
EYES: Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.	
SKIN: Flush skin with water until all chemical has been removed. Remove contaminated clothing and	

shoes. Wash clothing before reuse.

PRECAUTIONS AND PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all ignition sources. Provide personal protection and ventilation. Soak up spill with inert material, such as vermiculite, and collect in covered glass or steel container.

WASTE DISPOSAL METHOD: Incineration of waste material in an EPA approved facility

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
Avoid skin or eye contact; do not get on clothing. Do not breathe product vapor or mist. Keep away from sparks or open flame. Keep container closed and use with adequate ventilation. Store in a well-ventilated area, out of sun, away from heat and ignition sources. Remove closures carefully to relieve possible internal pressure. Keep upright and protect from damage. Refrigerate to prolong material shelf life.

OTHER PRECAUTIONS: For handling in closed ventilation system recommended above wear safety glasses with non-perforated side shields. For leak or spill or other emergency use chemical safety goggles and face shield. Do not wear contact lenses.

PERSONAL PROTECTION

RESPIRATORY PROTECTION: NIOSH/MSHA approved, positive pressure supplied air respirator if ventilation is unavailable

VENTILATION: Local exhaust needed

PROTECTIVE GLOVES: Impermeable gloves (rubber)

EYE PROTECTION: Chemical Goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Lab coat and apron, flame & chemical resistant coveralls, eyewash capable of sustained flushing

DOT CLASSIFICATION: UN1993/Flammable Liquid