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MATERIAL SAFETY DATA SHEET

Part Number/Trade Name: **Cat # 340 NF-400a-FB** **CAS# 70217-82-2**
Coelenterazine 400a **1-bisdeoxycoelenterazine** **di-dehydrocoelenterazine**

General Information

Company's Name: Prolume Ltd., NanoLight Division
Company's Street: 163 W. White Mountain Blvd., Suite D
Company's City: Pinetop
Company's State: Arizona
Company's Country: United States
Company's zip code: 85935
Company's Emergency Phone: 928-358-1343
Company's Information Phone: 928-367-1200
Record No. for Safety Entry: 001
Tot. Safety Entries This Stk #: 001
Status: SMJ
MSDS Serial Number: NF-C400a CAT# 340
Hazard Characteristic Code: NK

Ingredients/Identity Information

Proprietary: NO
Ingredient: COELENTERAZINE 400a
Ingredient Sequence Number: 01
Percent: 98%
NIOSH (RTECS) Number: NONE
OSHA PEL: N/K (FP N)
ACGIH TLV: N/K (FP N)

Physical/Chemical Characteristics

Appearance And Odor: YELLOW CRYSTALLINE POWDER
Melting Point: Not determined
Solubility in Water: Insoluble

Fire and Explosion Hazard Data

Flash Point: NOT VERY FLAMMABLE, NOT EASILY IGNIGHTED IN ROOM AIR

Cat # 340 NF-C400a-FB Coelenterazine 400a CAS# 70217-82-2 www.luciferin.com 1 of 3

Extinguishing Media: WATER, DRY CHEMICAL, CARBON DIOXIDE, HALON, OR STANDARD FOAM.
Special Fire Fighting Proc: USE NOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N). NO ACUTE HAZ. MOVE CNTNR FROM FIRE AREA IF POSS. AVOID BREATHING VAPORS/DUST; KEEP UPWIND.
Unusual Fire and Expl. Hazrds: MINIMAL FIRE HAZARD WHEN EXPOSED TO HEAT/FLAME.

Reactivity Data

Stability: YES
Cond. To Avoid (Stability): STORE -20C to -70C KEEP AWAY FROM AIR AND LIGHT
Materials To Avoid: Oxidizing agents
Hazardous Decomp. Products: THERMAL DECOMPOSITION MAY RELEASE ACRID SMOKE AND IRRITATING FUMES.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT RELEVANT

Health Hazard Data

LD50-LC50 Mixture: LD50 HAS NOT BEEN DETERMINED YET
Route Of Entry – Inhalation: YES
Route Of Entry – Skin: YES
Route Of Entry – Ingestion: YES
Health Haz Acute And Chronic: USE GOOD LABORATORY TECHNIQUE WHEN HANDLING THIS PRODUCT. MATERIALS & MIXTURES MAY PRESENT UNKNOWN HAZARDS & SHOULD BE USED W/CAUTION. ACUTE HEALTH HAZARDS: INHAL: MAY BE IRRITATING TO RESPIRATORY TRACT & MUCOUS MEMBRANES. EYES: CAN BE EXPECTED TO BE IRRITATING IN DUST FORM. INGEST: MAY BE IRRITATING TO THE GASTROINTESTINAL TRACT.
CHRONIC: (EFFECTS OF OVEREXPOSURE): NONE REPORTED
Suppl. Safety & Health Data: None
Explanation Carcinogenicity: Unknown
Signs/Symptoms of Overexposure: HEALTH HAZARD: SKIN: MAY PRODUCE ALLERGIC REACTIONS & DERMATITIS IN SUSCEPTIBLE INDIVIDUALS
Med. Cond. Aggravated By Exposure: NONE REPORTED, UNLIKELY UNLESS ALLERGIC
Emergency/First Aid Proc: INHAL: REMOVE TO FRESH AIR IMMEDIATELY. IF BREATHING STOPPED, PERFORMED ARTIFICIAL RESPIRATION. KEEP PERSON WARM & REST. TREAT SYMPTOMS & SUPPORTIVELY. GET MEDICAL ATTENTION IMMEDIATELY. NOT A SKIN IRRITANT. NOT AN EYE IRRITANT. WASH WITH SOAP AND WATER, MAY STAIN SOME FABRICS AND POROUS SURFACES

Precautions for Safe Handling and Use

Steps If Material Released/Spilled: NO SPECIAL PRECAUTIONS INDICATED
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS (FP N). NOT AN ENVIRONMENTAL HAZARD
Precautions-Handling/Storing: NONE SPECIFIED BY MANUFACTURER.

Control Measures

Respiratory Protection: NO SPECIFIC PRECAUTIONS.
Ventilation: NO SPECIFIC PRECAUTIONS.
Protective Gloves: NO SPECIFIC PRECAUTIONS.
Eye Protection: AVOID PROLONGED EXPOSURE TO DUST
Other Protective Equipment: WASH WITH SOAP AND WATER. OR ANY DETERGENT

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.
Suppl. Safety & Health Data: NO SPECIFIC TREATMENT REQUIRED IN NON-ALLERGIC
INDIVIDUALS. IF SWALLOWED NO TREATMENT REQUIRED. ALLERGIC POTENTIAL SMALL.

Transportation Data

NOT FLAMMABLE
NOT EXPLOSIVE
DOES NOT REQUIRE ANY SPECIAL HANDLING PRECAUTIONS

Disposal Data

NOT AN ENVIRONMENTAL HAZARD
(NATURALLY OCCURRING PRODUCT IN MARINE ENVIRONMENT)
DISPOSAL OF IN SINK OR GENERAL WASTE

Label Data

Label Required: YES
Technical Review Date: 7 September 2011
Label Date: June 2011
Label Status: G
Common Name: Coelenterazine 400a or Di-dehydrocoelenterazine
Chronic Hazard: UNKNOWN
Signal Word: TOXICITY UNKNOWN
Acute Health Hazard – UNKNOWN
Contact Hazard – UNKNOWN
Fire Hazard – Minimal to Nil
Reactivity Hazard – Avoid direct contact with strong oxidizing agents
Special Hazard Precautions: ACUTE – INHALATION: MAY BE IRRITATING TO RESPIRATORY TRACT
& MUCOUS MEMBRANES. EYES: MAY BE IRRITATING IN DUST FORM. INGEST: MAY BE
SLIGHTLY IRRITATING TO THE GASTROINTESTINAL & MAY PRODUCE ALLERGIC REACTIONS IN
CERTAIN INDIVIDUALS.
Protect Eye: Not required
Protect Skin: Not required
Protect Respiratory: Not required
Label Name: PROLUME LTD. NANOLIGHT DIVISION
Label Street: PO Box 2746
Label City: PINETOP
Label State: ARIZONA
Label Zip Code: 85935
Label Country: USA
Label Emergency Number: (928) 358-1343