

MATERIAL SAFETY DATA SHEET

Hampford Research, Inc.

SECTION 1. -----CHEMICAL PRODUCT AND COMPANY IDENTIFICATION-----

ETQC

CHEMICAL FORMULA: C21H21NO2

CAS NUMBER: 75535-23-8

CHEMICAL NAME: 2-(n-Ethyl-4Tetrahydroquinilidene) Chromanone

REVISED: 10/15/2002

MANUFACTURER: Hampford Research, Inc
P.O. Box 1073
54 Veterans Blvd.
Stratford, CT 06615

EMERGENCY TELEPHONE NUMBERS: OFFICE (203) 375-1137
CHEMTREC (800) 424-9300

SECTION 2. -----COMPOSITION / INFORMATION ON INGREDIENTS-----

COMPONENT	CAS #	% BY WEIGHT	EXPOSURE LIMITS
4H-1-Benzopyran-4-one, 3-[(1-ethyl-1,2,3,4-tetrahydro-6-quinoliny)methylene]-2,3-dihydro-	75535-23-8	100%	

SECTION 3. -----HAZARDS IDENTIFICATION-----

EYES: Moderate eye irritant.

SKIN: Not expected to be a skin irritant.

SWALLOWING: Throat discomfort, irritation of micromembranes.

INHALATION: Respiratory discomfort

SECTION 4. -----FIRST AID MEASURES-----

EYE CONTACT:
In case of contact, flush eyes with copious amounts of water for at least 15 minutes

SKIN CONTACT:
In case of contact, immediately wash skin with soap and water for at least 15 minutes. Wash contaminated clothing before reuse.

INGESTION:
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

SECTION 5. -----FIRE FIGHTING MEASURES-----

UNUSUAL FIRE AND EXPLOSION HAZARDS:
None expected

FIRE EXTINGUISHING MEDIA:
Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Revision Date: 10/15/2002

Page 1 of 4

Chemical Name: 2-(n-Ethyl-4Tetrahydroquinilidene) Chromanone

Material Safety Data Sheet

SPECIAL FIREFIGHTING INSTRUCTIONS:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Evacuate personnel to a safe area. Keep personnel removed

SECTION 6. -----ACCIDENTAL RELEASE MEASURES-----

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

SPILL CLEANUP MEASURES:

Scoop up, sweep up or vacuum. Avoid dust generation. Place in suitable container and hold for proper disposal. Ventilate area and wash spill site after material pickup is complete.

SECTION 7. -----HANDLING AND STORAGE-----

HANDLING AND STORAGE REQUIREMENTS:

Keep container tightly closed. Store in a dark, cool, dry place. Avoid prolonged or repeated exposure and dust generation.

SECTION 8. -----PERSONAL PROTECTION/EXPOSURE CONTROLS-----

EYE/FACE PROTECTION: Wear safety goggles. Wear coverall chemical splash goggles and face shield when possibility exists for eye and face contact from airborne material. Eye bath available.

SKIN PROTECTION: Wear appropriate impervious clothing such as compatible chemical-resistant coverall and gloves. Safety shower available.

RESPIRATORY PROTECTION: NIOSH/MSHA approved air purifying respirator.

ENGINEERING CONTROLS: Use adequate general or local exhaust to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation or other engineering controls to control airborne levels.

SECTION 9. -----PHYSICAL AND CHEMICAL PROPERTIES-----

PHYSICAL STATE: solid

MELTING POINT: 90 deg. C

BOILING POINT: N/A

SPECIFIC GRAVITY: N/A

APPEARANCE: orange powder

ODOR: Slight amine odor

OTHER:

SECTION 10. -----STABILITY AND REACTIVITY-----

INCOMPATIBILITIES:

Unstable on exposure to light

HAZARDOUS DECOMPOSITION:

Decomposition will occur on exposure to light producing Toxic fumes of carbon monoxide and carbon dioxide.

CHEMICAL STABILITY:

Stable

Material Safety Data Sheet

HAZARDOUS POLYMERIZATION:

Polymerization will not occur

SECTION 11. -----TOXICOLOGICAL INFORMATION-----

TOXICOLOGICAL EFFECTS:

Causes mild skin irritation. Oral LD50 is >13,000 mg/kg in rats. No skin irritation or sensitization is expected. The Ames test was negative. None of the components in this chemical is listed by IARC, NTP, or OSHA as a carcinogen.

SECTION 12. -----ECOLOGICAL INFORMATION-----

ECOLOGICAL EFFECTS:

Data not yet available

SECTION 13. -----DISPOSAL INFORMATION-----

WASTE MANAGEMENT PROCEDURES:

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State and Local environmental regulations.

SECTION 14. -----TRANSPORT INFORMATION-----

TRANSPORTATION INFORMATION:

Not regulated not listed by DOT

-----DOT (DOMESTIC SURFACE)-----

PROPER SHIPPING NAME:
HAZARD CLASS OR DIVISION:
UN / NA NUMBER:
PACKING GROUP:
DOT PRODUCT RQ lbs (kgs):
HAZARD LABEL (s):
HAZARD PLACARD (s):

-----IMO / IMDG CODE (OCEAN)-----

PROPER SHIPPING NAME:
HAZARD CLASS DIVISION NUMBER:
UN NUMBER:
PACKAGING GROUP:
HAZARD LABEL (s):
HAZARD PACKARD (s):

-----ICAO / IATA (AIR)-----

PROPER SHIPPING NAME:

Revision Date: 10/15/2002

Page 3 of 4

Chemical Name: 2-(n-Ethyl-4Tetrahydroquinilidene) Chromanone

Material Safety Data Sheet

HAZARD CLASS DIVISION NUMBER:
UN NUMBER:
SUBSIDIARY RISK:
PACKING GROUP:
HAZARD LABEL (s):
RADIOACTIVE?:
PASSENGER AIR - MAX QTY:
PASSENGER PACKING INSTRUCTION:
CARGO AIR - MAX QTY:
CARGO AIR PACKAGING INSTRUCTION:

SECTION 15. -----REGULATORY INFORMATION-----

REGULATORY INFORMATION:

Listed on TSCA January 2001 Inventory Tape, NDSL Canada Gazette, Part I, January 31, 1998, and EINECS June 15, 1990

SECTION 16. -----ADDITIONAL INFORMATION-----

ADDITIONAL INFORMATION:

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Hampford Research, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. Hampford Research grants permission to make unlimited paper copies for internal use only.

Revision Date: 10/15/2002

Chemical Name: 2-(n-Ethyl-4Tetrahydroquinilidene) Chromanone