

MATERIAL SAFETY DATA SHEET

Hampford Research, Inc.

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

2-ETHYL ANTHRAQUINONE

CHEMICAL FORMULA: C16 H12 O2

CAS NUMBER: 84-51-5

CHEMICAL NAME: 2-Ethyl anthraquinone

REVISED: 7/17/2003

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
2-Ethyl anthraquinone	85-51-5	99	

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

EYES: May cause irritation.

SKIN: May cause irritation.

SWALLOWING: Ingestion may result in gastric disturbances.

INHALATION: May cause throat or respiratory discomfort.

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

EYE CONTACT:
In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. If irritation develops, get medical attention.

SKIN CONTACT:
In case of contact, wash skin with soap and water for at least 15 minutes. Remove and wash contaminated clothing before reuse. If irritation develops, get medical attention.

INGESTION:
If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

INHALATION:
If inhaled, remove to fresh air. Aid in breathing if necessary and get immediate medical attention.

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

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Adequate ventilation and clean-up must be maintained to minimize dust accumulation. May form dust-air mixture.

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FIRE EXTINGUISHING MEDIA:

Use water fog, dry chemical extinguishing media or appropriate foam.

SPECIAL FIREFIGHTING INSTRUCTIONS:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

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

PERSONAL PROTECTIVE EQUIPMENT (PPE):

This material is not regulated by RCRA or CERCLA ("Superfund"). Wear appropriate respiratory protection and protective clothing and provide adequate ventilation during clean-up.

SPILL CLEANUP MEASURES:

Spills should be contained, solidified and placed in suitable containers for disposal in a licensed facility.

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

HANDLING AND STORAGE REQUIREMENTS:

Avoid dust accumulation and exposure to moisture. Store in a cool, dry, well-ventilated area.

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 and gloves such as compatible chemical-resistant. Safety shower available.

RESPIRATORY PROTECTION: If dusts are generated, wear an approved dust respirator.

ENGINEERING CONTROLS: Use local exhaust to control dusts.

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

PHYSICAL STATE: Solid
MELTING POINT: 108-111°C
BOILING POINT: N/A
SPECIFIC GRAVITY: N/A
APPEARANCE: Yellow
ODOR: Slight odor
OTHER: Solubility in water: Insoluble

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

INCOMPATIBILITIES:

Avoid strong oxidizing and reducing agents.

HAZARDOUS DECOMPOSITION:

COx

CHEMICAL STABILITY:

Stable

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HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

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

TOXICOLOGICAL EFFECTS:

Acute Effects:

May be harmful by inhalation, ingestion, or skin absorption.

May cause eye irritation.

May cause skin irritation.

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

RTECS #: CB0525000

9,10-Anthracenedione, 2-Ethyl-

Toxicity Data:

ORL-RAT LD50:2795 MG/KG NTIS** OTS0534314

IPR-MUS LD50:200 MG/KG NTIS** AD277-689

SKN-RBT LD50:>20 GM/KG NTIS** OTS0534314

Only selected registry of toxic effects of chemical substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

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

ECOLOGICAL EFFECTS:

Data not yet available.

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

WASTE MANAGEMENT PROCEDURES:

Incinerate or landfill in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

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

TRANSPORTATION INFORMATION:

Contact Hamford Research, Inc. for transportation information.

-----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 PLACARD (s):

Revision Date: 7/17/2003

Chemical Name: 2-Ethyl anthraquinone

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

PROPER SHIPPING NAME:
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:

Reviews, standards, and regulations
OEL=MAK
NOES 1983: HZD X3674; NIS 1; TNF 80; NOS 1; TNE 483
EPA TSCA Section 8(B) chemical inventory
EPA TSCA section 8(D) unpublished health/safety studies
EPA TSCA test submission (TSCATS) data base, January 2001

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

ADDITIONAL INFORMATION:

Environmental Toxicity Test Data:
Golden Orfe, static 96 hr LC50 - < 10000 MG/L Insignificant Hazard
Pseudomonas putida, Toxicity, EC - 10000 MG/KG Not Toxic

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.