

GFS CHEMICALS, INC.
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MATERIAL SAFETY DATA SHEET

1597

tris-(BATHOPHENANTHROLINE) RUTHENIUM (II) CHLORIDE

CHEMICAL NAME & SYNONYMS

tris-(Bathophenanthroline) Ruthenium (II) Chloride
Ruthenium (II) tris(4,7-diphenyl-1,10-phenanthroline) Chloride

DOT CLASS

NR

SARA TITLE 313

No

TSCA listed - No

FORMULA

$[(C_6H_5)_2C_{12}H_6N_2]_3RuCl_2$

REPORTABLE QUANTITY

N/A

F.W.

1169.20

CAS#

36309-88-3

PHYSICAL DATA

Insoluble in water; Soluble in methyl alcohol, ethyl alcohol, glycol, acetone.

APPEARANCE & ODOR

Red crystals and powder.

REACTIVITY & CONDITIONS TO AVOID

Stable. No known hazardous reactivity.

FIRE HAZARDS

Will decompose in general fire. Emits fumes of NO_x and RuO_x. Firefighters wear SCBA.

EXTINGUISHER

Fight surrounding fire.

FLASHPOINT

N/A

LEL

N/A

UEL

N/A

HEALTH HAZARDS

Consider toxic internally. LD/TD no data. OSHA PEL/ACGIH TLV not established. No evidence of carcinogenicity. The chemical, physical and toxicological properties of this material have not been fully determined, use prudent laboratory practices to avoid exposure. This product is supplied SOLELY for use in RESEARCH AND DEVELOPMENT by or under the supervision of a TECHNICALLY QUALIFIED INDIVIDUAL, Who should be FULLY COGNIZANT of the procedures for working with chemical products of this type as described at 40 CFR 720.36.

SPECIAL PRECAUTIONS

Wear goggles and rubber gloves while handling. Use with adequate ventilation or suitable respirator to avoid inhalation of dusts. Avoid all contact.

FIRST AID

Wash skin and eyes thoroughly with water after contact. If eye irritation persists, see a physician. If swallowed, give water to drink and get medical attention.

SPILLS & LEAKS

Carefully collect spill for recovery, if possible. Disposal to sanitary drain (small quantities only) or precious metals recovery.

CATALOG #

1597

PREPARED BY

MDM

DATE

August 31, 2005