Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

ROCIMA (TM) 404D

Revision date: 08/13/2007

Supplier Rohm and Haas Company
100 Independence Mall West
Philadelphia, PA 19106-2399 United States of America

For non-emergency information contact: 215-592-3000

Emergency telephone number

Spill Emergency	215-592-3000
Health Emergency	215-592-3000
Chemtrec	800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Tetrachloro-1,3-dicyanobenzene	1897-45-6	41.4%
Water	7732-18-5	48.3%
Non-hazardous ingredients	Not Hazardous	10.3%

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance

Form	liquid
Colour	Light gray
Odour	slight

Hazard Summary **CAUTION!**
Irritating to respiratory system.
Causes moderate eye irritation
May cause allergic skin reaction

Potential Health Effects
Primary Routes of Entry: Inhalation
Skin contact

Eye contact

Eyes: Direct contact with material can cause the following:
Moderate irritation.
temporary corneal injury

Skin: Prolonged or repeated skin contact can cause the following:
possible irritation

Inhalation: Inhalation of vapor or mist can cause the following:
irritation of nose, throat, and lungs
headache
nausea
dizziness

Chronic Exposure: Prolonged or repeated exposure can cause the following:
allergic skin reaction

Tetrachloro-1,3-dicyanobenzene	US CA CRT	Carcinogenic.
Tetrachloro-1,3-dicyanobenzene	IARC	Possible carcinogen.
Tetrachloro-1,3-dicyanobenzene	IARC	Inadequate data.

4. FIRST AID MEASURES

Inhalation: Move to fresh air. Give artificial respiration if breathing has stopped. Consult a physician.

Skin contact: Remove contaminated clothing. Wash off with soap and plenty of water. Wash contaminated clothing before re-use. Do not take clothing home to be laundered. Consult a physician.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion: Do NOT induce vomiting. Drink 1 or 2 glasses of water. IMMEDIATELY see a physician. If vomiting occurs spontaneously, keep airway clear. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flash point	Nonflammable
Thermal decomposition	Combustion generates toxic fumes of the following:, Carbon oxides, nitrogen oxides (NOx), hydrogen chloride
Suitable extinguishing media:	Use water spray, foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations.

If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.

Environmental precautions
WARNING: KEEP SPILLS AND CLEANING RUNOFFS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER.

Methods for cleaning up
Keep spectators away.
Ventilate the area.
Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Handling
Wash after handling and shower at end of work period. Vapors can be evolved when material is heated during processing operations. See SECTION 8, Exposure Controls/Personal Protection, for types of ventilation required.

Storage
Storage conditions: Keep container tightly closed in a dry and well-ventilated place.
Other data: Do not freeze.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value
Tetrachloro-1,3-dicyanobenzene	Rohm and Haas	TWA	1.0 mg/m3
	Rohm and Haas	STEL	3 mg/m3

Eye protection: Use chemical splash goggles (ANSI Z87.1 or approved equivalent). Eye protection worn must be compatible with respiratory protection system employed.

Hand protection: Chemical-resistant gloves should be worn whenever this material is handled. The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): Neoprene gloves

Protective measures: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Engineering measures: Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	liquid
Colour	Light gray
Odour	slight
pH	6.0 - 8.0
Flash point	Nonflammable
Water solubility	dispersible
Relative density	1.24
Bulk density	1.2 kg/m3
Percent volatility	2 %

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Hazardous decomposition products	hydrogen chloride,
polymerization	Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 rat 4,100 mg/kg
Acute inhalation toxicity	LC50 rat 4 h 0.13 mg/l
Acute dermal toxicity	LD50 rabbit >2,000 mg/kg
Skin irritation	rabbit Mild skin irritation
Eye irritation	rabbit Moderate eye irritation
Sensitization	guinea pig Not a sensitizer.

12. ECOLOGICAL INFORMATION

Tetrachloro-1,3-dicyanobenzene

Ecotoxicity effects

Toxicity to fish	LC50 0.049 mg/l

Toxicity to aquatic invertebrates	EC50 Daphnia magna 0.2 mg/l

13. DISPOSAL CONSIDERATIONS

Environmental precautions: WARNING: KEEP SPILLS AND CLEANING RUNOFFS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER.

Disposal
Disposal:
Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations.
Waste Classification: 40 CFR 261.20 - .24 - Characteristic Waste Hexachlorobenzene (118-74-1), D032, RQ 10lbs.
When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste with the characteristic of toxicity.

14. TRANSPORT INFORMATION

DOT

Not regulated for transport

IMO/IMDG

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Tetrachloroisophthalonitrile)
UN-No.	UN 3082
Class	9
Packing group	III
Marine pollutant	Tetrachloroisophthalonitrile

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations

15. REGULATORY INFORMATION

Workplace Classification
This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

This product is a 'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS).

SARA TITLE III: Section 311/312 Categorizations (40CFR370): Acute Health Hazard
Chronic Health Hazard

SARA TITLE III: Section 313 Information (40CFR372)

SARA Title III Components:	Tetrachloro-1,3-dicyanobenzene	1897-45-6

CERCLA Information (40CFR302.4)

CERCLA Components:	Hexachlorobenzene	118-74-1	10 lbs RQ

US. Toxic Substances Control Act (TSCA) This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and is therefore exempt from U.S. Toxic Substances Control Act (TSCA) Inventory listing requirements.

Pennsylvania

Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.
The following chemicals are listed because of the additional requirements of Pennsylvania law:

Components:	Hexachlorobenzene	118-74-1

California (Proposition 65)

This product contains a component or components known to the state of California to cause cancer and birth defects or other reproductive harm:

Components:	Hexachlorobenzene	118-74-1

California (Proposition 65)

This product contains a component or components known to the state of California to cause cancer:

Components:	Tetrachloro-1,3-dicyanobenzene	1897-45-6

16. OTHER INFORMATION

Hazard Rating

	Health	Fire	Reactivity
HMIS	3	0	0

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
BAc	Butyl acetate
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit (STEL):
TLV	Threshold Limit Value
TWA	Time Weighted Average (TWA):
|	Bar denotes a revision from prior MSDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Version: 1.1
Print Date: 08/15/2007
Layout 1006354