



# MATERIAL SAFETY DATA SHEET

## Rohm and Haas Company

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CONFIRM™ 2F Insecticide

Product Code : 73719  
Key : 889750-8

MSDS Date : 09/18/98

#### COMPANY IDENTIFICATION

ROHM AND HAAS COMPANY  
100 INDEPENDENCE MALL WEST  
PHILADELPHIA, PA 19106-2399

#### EMERGENCY TELEPHONE NUMBERS

HEALTH EMERGENCY : 215-592-3000  
SPILL EMERGENCY : 215-592-3000  
CHEMTREC : 800-424-9300

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>No.</u>	<u>_____</u>	<u>CAS REG NO</u>	<u>WEIGHT (%)</u>
1	RH-5992 (Tebufenozide) .....	112410-23-8	22-24
2	Glycerol .....	56-81-5	76-78
3	Water .....	7732-18-5	
4	Related reaction products .....	None	

See Section 8, Exposure Controls / Personal Protection

### 3. HAZARDS IDENTIFICATION

#### Primary Routes of Exposure

Inhalation  
Eye Contact  
Skin Contact

#### Inhalation

Inhalation of vapor or mist is possibly harmful.

#### Eye Contact

Direct contact with material can cause the following:  
- possible irritation

#### Skin Contact

Prolonged or repeated skin contact can cause the following:  
- slight skin irritation

#### Delayed Effects

Repeated overexposure to the active ingredient in this material can cause the following:  
- adverse reproductive effects - blood changes



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#### **4. FIRST AID MEASURES**

##### Inhalation

Move subject to fresh air.

##### Eye Contact

Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.

##### Skin Contact

Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists. Remove and wash contaminated clothing thoroughly. Do not take clothing home to be laundered.

##### Ingestion

If swallowed, give 2 glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

##### Note to Physician

If swallowed, careful evacuation of the stomach is advisable.

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#### **5. FIRE FIGHTING MEASURES**

<u>Flash Point .....</u>	<u>Noncombustible</u>
<u>Auto-ignition Temperature .....</u>	<u>Not Applicable</u>
<u>Lower Explosive Limit .....</u>	<u>Not Applicable</u>
<u>Upper Explosive Limit .....</u>	<u>Not Applicable</u>

##### Unusual Hazards

Pesticide particulates can become airborne.  
Dried product can burn.

##### Extinguishing Agents

Use the following extinguishing media when fighting fires involving this material:  
- carbon dioxide - dry chemical - water spray

##### Personal Protective Equipment

Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.

##### Special Procedures

Remain upwind. Avoid breathing smoke. Use water spray to cool containers exposed to fire. Contain run-off.



## 6. ACCIDENTAL RELEASE MEASURES

### Personal Protection

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. Remove all contaminated clothing promptly. Wash all exposed skin areas with soap and water immediately after exposure. Thoroughly launder clothing before reuse. Do not take clothing home to be laundered.

### Procedures

Floor may be slippery; use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

## 7. HANDLING AND STORAGE

### Storage Conditions

Do not store this material near food, feed or drinking water. Keep container tightly closed when not in use.

### Handling Procedures

Do not handle material near food, feed or drinking water.

### Other

Triple rinse (or equivalent) and puncture empty container. Dispose empty container in a sanitary landfill or by incineration as allowed by state and local authorities. Avoid inhalation of smoke if incinerated.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limit Information

No		CAS REG NO	WEIGHT (%)
1	RH-5992 (Tebufenozide) .....	112410-23-8	22-24
2	Glycerol .....	56-81-5	76-78
3	Water .....	7732-18-5	
4	Related reaction products .....	None	

Comp. No.	Units	ROHM AND HAAS		OSHA		ACGIH	
		TWA	STEL	TWA	STEL	TWA	STEL
<u>1</u>	<u>mg/m3</u>	<u>1.3</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
<u>2</u>	<u>mg/m3</u>	<u>None</u>	<u>None</u>	<u>10 Mist</u>	<u>None</u>	<u>10 Mist</u>	<u>None</u>
<u>3</u>		<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
<u>4</u>		<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>



### Respiratory Protection

A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in 'Exposure Limit Information'.

Up to 10 times the exposure limit: Wear a MSHA/NIOSH approved (or equivalent) half-mask, air-purifying respirator.

Up to 100 times the exposure limit: Wear a MSHA/NIOSH approved (or equivalent) full-facepiece, air-purifying respirator,

OR

full-facepiece, airline respirator in the demand mode.

Above 100 times the exposure limit or Unknown: Wear a MSHA/NIOSH approved (or equivalent) self-contained breathing apparatus in the pressure demand mode,

OR

MSHA/NIOSH approved (or equivalent) full-facepiece, airline respirator in the pressure demand mode with emergency escape provision.

Air-purifying respirators should be equipped with MSHA/NIOSH approved (or equivalent) cartridges for protection against pesticides.

### 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:

- Nitrile - Butyl/Neoprene rubber

Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Rinse and remove gloves immediately after use. Wash hands with soap and water.

### Other Protection

Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

### Engineering Controls (Ventilation)

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.

### Other Protective Equipment

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



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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

<u>Color</u> .....	<u>Off-white, cream color</u>
<u>State</u> .....	<u>Liquid</u>
<u>Odor Characteristic</u> .....	<u>Slight musty odor</u>
<u>pH</u> .....	<u>6 to 7.5</u>
<u>Viscosity</u> .....	<u>300 to 600 CPS</u>
<u>Specific Gravity (Water = 1)</u> .....	<u>1.05 @ 25°C/77°F</u>
<u>Vapor Density (Air = 1)</u> .....	<u>&lt; 1 Water</u>
<u>Vapor Pressure</u> .....	<u>17 mm Hg @ 20°C/68°F Water</u>
<u>Melting Point</u> .....	<u>0°C/32°F Water</u>
<u>Boiling Point</u> .....	<u>100°C/212°F Water</u>
<u>Solubility in Water</u> .....	<u>Dispersible</u>
<u>Percent Volatility</u> .....	<u>72 to 75 %</u>
<u>Evaporation Rate (BAC = 1)</u> .....	<u>&lt; 1 Water</u>

See Section 5, Fire Fighting Measures

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## **10. STABILITY AND REACTIVITY**

### Instability

This material is considered stable.

### Hazardous Decomposition Products

Thermal decomposition may yield the following:  
- isobutylene

### Hazardous Polymerization

Product will not undergo polymerization.

### Incompatibility

Avoid contact with strong oxidizing agents.

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## **11. TOXICOLOGICAL INFORMATION**

### Acute Data

Oral LD50 - rat: >5000 mg/kg  
Dermal LD50 - rat: >5000 mg/kg  
Skin Irritation - rabbit: slight irritation  
Eye irritation - rabbit: inconsequential irritation  
Inhalation LC50 - rat: >2.7 mg/L for 4 hr

### Subchronic/Chronic Data

The following data pertains to studies conducted with the technical material, 97% active ingredient:  
In thirteen-week dietary studies in rats, mice and dogs, the observed NOEL was 200 ppm (10 mg/kg/day), 20 ppm (3 mg/kg/day) and 50 ppm (1.7 mg/kg/day), respectively. The hemopoietic system is the target organ of toxicity in these species.



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### Mutagenicity Data

The following data pertains to studies conducted with the technical material, 97% active ingredient:

Ames mutagenicity: Negative

Mammalian Point Mutation: Negative

In vitro cytogenetic assay (Chinese hamster ovary cells): Negative

In vivo cytogenetic assay (rat): Negative

In vitro rat hepatocyte Unscheduled DNA Synthesis: Negative

### Reproductive/Teratology Data

The following data pertains to studies conducted with the technical material, 97% active ingredient:

No developmental toxic effects were observed in rats nor rabbits when studied up to and including 1000 mg/kg/day.

Slight reproductive effects were observed at a high dose (2000 ppm) in a rat two-generation reproduction study; the NOEL for reproductive effects was 150 ppm (7.5 mg/kg/day).

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## **12. ECOLOGICAL INFORMATION**

### Environmental Toxicity

[Oyster shell \(\*Crassostrea virginica\*\), Deposition EC50: 0.64 mg/l](#)

[Earthworm, 14 Day LC50: > 1000 mg/kg](#)

[Honeybee, LD50: > 234 ug/bee](#)

[Mallard duck, LC50: > 5000 ppm](#)

[Bobwhite quail, LC50: > 5000 ppm](#)

[Bobwhite quail, LD50: > 2150 mg/kg](#)

[Daphnia magna, 48 Hour EC50: 3.8 mg/l](#)

[Rainbow trout \(\*Salmo gairdneri\*\), 96 Hour LC50: 5.7 mg/l](#)

[Bluegill sunfish \(\*Lepomis macrochirus\*\), 96 Hour LC50: 3.0 mg/l](#)

[The above Environmental Toxicity data are from studies conducted on the technical material, 97% active ingredient.](#)

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## **13. DISPOSAL CONSIDERATIONS**

### Procedure

Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations.

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## **14. TRANSPORT INFORMATION**

US DOT Hazard Class ..... NONREGULATED

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## **15. REGULATORY INFORMATION**

### Workplace Classification

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

This product is subject to regulation under the Canadian Pest Control Products Act (P.C.P. Act). Therefore, this product is excluded from the supplier labeling and material safety data sheet requirements as specified in Section 12 of the Hazardous Products Act.



SARA TITLE 3: Section 311/312 Categorizations (40CFR 370)

This product is a hazardous chemical under 29CFR 1910.1200, and is categorized as a delayed health hazard.

SARA TITLE 3: Section 313 Information (40CFR 372)

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

CERCLA Information (40CFR 302.4)

Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

Waste Classification

When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

United States

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.

**16. OTHER INFORMATION**

Rohm and Haas Hazard Rating	Scale
Toxicity	1 4=EXTREME
Fire	0 3=HIGH
Reactivity	0 2=MODERATE
Special	- 1=SLIGHT
	0=INSIGNIFICANT

Ratings are based on Rohm and Haas guidelines, and are intended for internal use.

**ABBREVIATIONS:**

- ACGIH = American Conference of Governmental Industrial Hygienists
  - OSHA = Occupational Safety and Health Administration
  - TLV = Threshold Limit Value
  - PEL = Permissible Exposure Limit
  - TWA = Time Weighted Average
  - STEL = Short-Term Exposure Limit
  - BAC = Butyl acetate
- Bar denotes a revision from previous MSDS in this area.

The information contained herein relates only to the specific material identified. Rohm and Haas Company believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. Rohm and Haas Company urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.