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## 1. PRODUCT AND COMPANY IDENTIFICATION

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### COPPER GLEAM 125 ADDITIVE

Revision date: 01/01/2004

**Supplier** Rohm and Haas Electronic Materials LLC  
455 Forest Street  
Marlborough, MA 01752 United States of America

**For non-emergency information contact:** 508-481-7950

### Emergency telephone number

Chemtec 800-424-9300  
Rohm and Haas Emergency 215-592-3000

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

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Component	CAS-No.	Concentration
Water	7732-18-5	> 85.0 %
Methanol	67-56-1	< 1.0 %
Oxyalkylene Polymer		< 10.0 %

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## 3. HAZARDS IDENTIFICATION

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### Emergency Overview

### Appearance

Form liquid  
Colour clear  
Odour slight

### Hazard Summary

#### **CAUTION!**

Contact with eyes, skin, and mucous membranes may cause irritation.

### Potential Health Effects

**Primary Routes of Entry:** Inhalation, ingestion, eye and skin contact.

**Eyes:** May cause pain, transient irritation and superficial corneal effects.

**Skin:** Material may cause irritation.

**Ingestion:** Swallowing may have the following effects:  
irritation of mouth, throat and digestive tract

**Inhalation:** Inhalation may have the following effects:  
irritation of nose, throat and respiratory tract

**Target Organs:** Eye  
Respiratory System  
Skin

**Carcinogenicity**

Not considered carcinogenic by NTP, IARC, and OSHA

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## 4. FIRST AID MEASURES

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**Inhalation:** Remove from exposure. If there is difficulty in breathing, give oxygen. Seek medical attention if symptoms persist.

**Skin contact:** Wash skin with water. Continue washing for at least 15 minutes. Obtain medical attention if blistering occurs or redness persists.

**Eye contact:** Immediately flush the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

**Ingestion:** Wash out mouth with water. Have victim drink 1-3 glasses of water to dilute stomach contents. Immediate medical attention is required. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing.

**Notes to physician**

Treat symptomatically.

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## 5. FIRE-FIGHTING MEASURES

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**Flash point** >93 °C (199 °F)

**Lower explosion limit** not applicable

**Upper explosion limit** not applicable

**Suitable extinguishing media:** Not readily combustible.  
Select extinguishing agent appropriate to other materials involved.

**Specific hazards during fire fighting:** No specific measures necessary.

**Special protective equipment for fire-fighters:** Wear full protective clothing and self-contained breathing apparatus.

**Further information:** This product may give rise to hazardous vapors in a fire.

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## 6. ACCIDENTAL RELEASE MEASURES

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**Personal precautions**

Wear suitable protective clothing.

**Environmental precautions**

Prevent the material from entering drains or water courses.  
 Do not discharge directly to a water source.  
 Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

**Methods for cleaning up**

Cover with absorbent or contain. Collect and dispose.

**7. HANDLING AND STORAGE**

**Handling**

Use only in well-ventilated areas. Avoid breathing vapor. Avoid contact with eyes, skin and clothing.  
 Keep container tightly closed.

**Further information on storage conditions:** No special precautions necessary.

**Storage**

**Storage conditions:** Store in original container. Storage area should be: cool dry well ventilated out of direct sunlight away from incompatible materials

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure limit(s)**

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value
Methanol	ACGIH	TWA	262 mg/m3 200 ppm
	ACGIH	STEL	328 mg/m3 250 ppm
	ACGIH	SKIN_DES	
	OSHA_TRANS	PEL	260 mg/m3 200 ppm
	Z1A	TWA	260 mg/m3 200 ppm
	Z1A	STEL	325 mg/m3 250 ppm
	Z1A	SKIN_FINAL	
	Rohm and Haas	TWA	200 ppm
	Rohm and Haas	STEL	250 ppm
	Rohm and Haas	Absorbed via skin	

**Eye protection:** goggles

**Hand protection:** Nitrile rubber gloves. Other chemical resistant gloves may be recommended by your safety professional.

**Skin and body protection:** Normal work wear.

**Respiratory protection:** No personal respiratory protective equipment normally required. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

**Engineering measures:** Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance**

<b>Form</b>	liquid
<b>Colour</b>	clear
<b>Odour</b>	slight
<b>pH</b>	3
<b>Boiling point/range</b>	100 °C (212 °F)
<b>Flash point</b>	>93 °C (199 °F)
<b>Lower explosion limit</b>	not applicable
<b>Upper explosion limit</b>	not applicable
<b>Vapour pressure</b>	Similar to water

Component: **Methanol**

<b>Vapour pressure</b>	96.0 mmHg at 20 °C
<b>Relative vapour density</b>	Heavier than air.
<b>Water solubility</b>	completely soluble
<b>Relative density</b>	1.00 - 1.01
<b>Evaporation rate</b>	Slower than ether
<b>VOC's</b>	19.9 g/l

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

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## 10. STABILITY AND REACTIVITY

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<b>Hazardous reactions</b>	Stable under normal conditions.
<b>Conditions to avoid</b>	contact with incompatible materials Exposure to sunlight.
<b>Materials to avoid</b>	cyanides Carbonates sulfides Strong oxidizers Reducing agents Combustible organic materials bases
<b>Hazardous decomposition products polymerization</b>	Carbon monoxide, carbon dioxide, oxides of sulfur, nitrogen oxides (NOx), acids, Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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*Toxicological information on this product or its components appear in this section when such data is available.*

Component: **Methanol**

**Acute oral toxicity** LD50 mouse 7,300 mg/kg

Component: **Methanol**

**Acute oral toxicity** LD50 rat > 5,000 mg/kg  
A large dose may have the following effects:  
central nervous system depression  
loss of consciousness  
temporary or permanent blindness

Component: **Methanol**

**Acute inhalation toxicity** LC50 rat 64,000 mg/m<sup>3</sup>

Component: **Methanol**

**Acute dermal toxicity** LD50 rabbit 15,800 mg/kg

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## 12. ECOLOGICAL INFORMATION

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*Ecotoxicological information on this product or its components appear in this section when such data is available.*

### **Methanol**

**Ecotoxicity effects**

**Toxicity to fish** LC50  
10,000 mg/l

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## 13. DISPOSAL CONSIDERATIONS

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**Environmental precautions:** Prevent the material from entering drains or water courses.  
Do not discharge directly to a water source.  
Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

### **Disposal**

Dispose in accordance with all local, state (provincial), and federal regulations. Under RCRA, it is the responsibility of the product's user to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.  
Do not remove label until container is thoroughly cleaned. Empty containers may contain hazardous residues. This material and its container must be disposed of in a safe way.

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## 14. TRANSPORT INFORMATION

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### **DOT**

Not regulated for transport

### **IMO/IMDG**

Not regulated (Not dangerous for transport)

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## 15. REGULATORY INFORMATION

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**SARA TITLE III: Section 311/312 Categorizations (40CFR370):** Immediate health hazard

**SARA TITLE III: Section 313 Information (40CFR372)**

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

**U.S. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D):**

U.S. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)  
 This product does not contain any substances subject to Section 12(b) export notification.

**US. Toxic Substances Control Act (TSCA)** All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**California (Proposition 65)**

This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

**16. OTHER INFORMATION**

**Hazard Rating**

	<b>Health</b>	<b>Fire</b>	<b>Reactivity</b>
<b>NFPA</b>	2	1	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.

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