



DATE: 08/10/05  
INDEX: A52200778

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CAT NO: 612148

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	none listed	none listed	none listed
propylene glycol	none listed	none listed	none listed
Water	none listed	none listed	none listed

OSHA Vacated PELs:  
Formaldehyde:  
3 ppm TWA (unless specified in 1910.1048)  
propylene glycol:  
No OSHA Vacated PELs are listed for this chemical.  
Water:  
No OSHA Vacated PELs are listed for this chemical.

#### Personal Protective Equipment

- Eyes:**  
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- Skin:**  
Wear appropriate gloves to prevent skin exposure.
- Clothing:**  
Wear appropriate protective clothing to prevent skin exposure.
- Respirators:**  
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

#### \*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

Physical State: Solid  
Color: not available  
Odor: mild odor  
pH: Not available.  
Vapor Pressure: Not available.  
Vapor Density: 1  
Viscosity: Not available.  
Boiling Point: Not available.  
Freezing/Melting Point: Not available.  
Decomposition Temperature: Not available.  
Solubility in water: Not available.  
Specific Gravity/Density: Not available.  
Molecular Formula: Mixture  
Molecular Weight: Not available

#### \*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\*

**Chemical Stability:**  
Stable under normal temperatures and pressures.  
**Conditions to Avoid:**  
High temperatures.  
**Incompatibilities with Other Materials:**  
None reported.  
**Hazardous Decomposition Products:**  
Irritating and toxic gases.  
**Hazardous Polymerization:** Has not been reported.

#### \*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

##### RTCCER:

CAS# 50-00-0: 109892800  
CAS# 57-55-6: 72000000  
CAS# 7732-18-5: 200110000

##### LD50/LC50:

CAS# 50-00-0: Draize test, rabbit, eye: 37% Severe; Draize test, rabbit, eye: 750 mg/24H Severe; Draize test, rabbit, eye: 750 mg Severe; Draize test, rabbit, eye: 10 mg Severe; Draize test, rabbit, skin: 2 mg/24H Severe; Draize test, rabbit, skin: 50 mg/24H Moderate; Inhalation, mouse: LC50 = 505 mg/ml/2H; Inhalation, mouse: LC50 = 454 mg/m<sup>3</sup>/4H; Inhalation, rat: LC50 = 578 mg/m<sup>3</sup>/2H; Inhalation, rat: LC50 = 250 ppm/2H; Inhalation, rat: LC50 = 204 mg/m<sup>3</sup>; Oral, mouse: LD50 = 385 mg/kg; Oral, mouse: LD50 = 500 mg/kg; Oral, mouse: LD50 = 42 mg/kg; Oral, rat: LD50 = 300 mg/kg; Oral, rat: LD50 = 300 mg/kg; Skin, rabbit: LD50 = 270 mg/kg; Skin, rabbit: LD50 = 270 mg/kg.  
CAS# 57-55-6: Draize test, rabbit, eye: 100 mg Mild; Draize test, rabbit, eye: 500 mg/24H Mild; Oral, mouse: LD50 = 20100 mg/kg; Oral, mouse: LD50 = 22 gm/kg; Oral, rabbit: LD50 = 18500 mg/kg; Oral, rat: LD50 = 20 gm/kg; Skin, rabbit: LD50 = 20000 mg/kg; Skin, rabbit: LD50 = 20000 mg/kg.  
CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg.

##### Carcinogenicity:

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Formaldehyde  
ACGIH: A2 - Suspected Human Carcinogen  
California: carcinogen; initial date 1/1/90  
NIOSH: potential occupational carcinogen  
NTP: Suspect carcinogen  
OSHA: Possible Select carcinogen  
IARC: Group 2A carcinogen  
propylene glycol  
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.  
Water  
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.  
**Epidemiology:**  
No data available.  
**Teratogenicity:**  
Propylene glycol can cause teratogenic effects in animal studies.  
**Reproductive Effects:**  
No data available.  
**Neurotoxicity:**  
No data available.  
**Mutagenicity:**  
No data available.  
**Other Studies:**  
No data available.

#### \*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

#### \*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.  
RCRA P-Series: None listed.  
RCRA D-Series: CAS# 50-00-0: waste number D122.

#### \*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

##### US DOT:

Shipping Name: AVIATION REGULATED LIQUID, N.O.S.  
Hazard Class: 9  
UN Number: UN3334  
Packing Group:  
Canadian TDG:  
No information available.

#### \*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\*

##### US FEDERAL:

###### TSCA

CAS# 50-00-0 is listed on the TSCA inventory.  
CAS# 57-55-6 is listed on the TSCA inventory.  
CAS# 7732-18-5 is listed on the TSCA inventory.  
Health & Safety Reporting List:  
None of the chemicals are on the Health & Safety Reporting List.  
Chemical Test Rules:  
None of the chemicals in this product are under a Chemical Test Rule.  
Section 12b:  
None of the chemicals are listed under TSCA Section 12b.  
TSCA Significant New Use Rule:  
None of the chemicals in this material have a SNUR under TSCA.

###### RCRA

CERCLA Hazardous Substances and corresponding RQs  
CAS# 50-00-0: 100 lb Final RQ;  
SARA Section 302 Extremely Hazardous Substances  
CAS# 50-00-0: 500 lb TPO  
SARA Codes  
CAS# 50-00-0: acute, chronic.  
Section 313

This material contains Formaldehyde (CAS# 50-00-0, 0.3 to 0.5%) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 392.

##### Clean Air Act:

CAS# 50-00-0 is listed as a hazardous air pollutant (HAP).  
This material does not contain any Class 1 ozone depleters.  
This material does not contain any Class 2 ozone depleters.  
Clean Water Act:

CAS# 50-00-0 is listed as a Hazardous Substance under the CWA.  
None of the chemicals in this product are listed as Priority Pollutants under the CWA.  
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.  
OSHA:  
None of the chemicals in this product are considered highly hazardous by OSHA.

##### STATE:

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Formaldehyde can be found on the following state right to know lists:  
California, New Jersey, Pennsylvania, Minnesota, Massachusetts.  
propylene glycol can be found on the following state right to know  
lists: Pennsylvania, Minnesota.

Water is not present on state lists from CA, PA, MN, MA, FL, or NJ.  
The following statement(s) is(are) made in order to comply with  
the California Safe Drinking Water Act:

WARNING: This product contains Formaldehyde, a chemical known to the  
state of California to cause cancer.  
California No Significant Risk Level:  
CAS# 50-00-0: 40 ug/day NRRL

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 50-00-0: 2

CAS# 57-85-8: 0

CAS# 7732-18-5: No information available.

United Kingdom Occupational Exposure Limits

CAS# 57-85-8; OEL-United Kingdom, TWA 150 ppm TWA (vapor and  
particulates); 474 mg/m<sup>3</sup> TMA (vapor and particulates); 10

United Kingdom Maximum Exposure Limits

CAS# 50-00-0; MEL-United Kingdom, TWA 2 ppm TWA; 2.5 mg/m<sup>3</sup> TMA  
CAS# 50-00-0; MEL-United Kingdom, STEL 2 ppm STEL; 2.5 mg/m<sup>3</sup> STEL  
CAS# 50-00-0; MEL-United Kingdom, STEL 2 ppm STEL; 2.5 mg/m<sup>3</sup> STEL

Canada

CAS# 50-00-0 is listed on Canada's DSL List.  
CAS# 57-85-8 is listed on Canada's DSL List.  
CAS# 7732-18-5 is listed on Canada's DSL List.  
This product has a WHMIS classification of D2A.  
CAS# 50-00-0 is listed on Canada's Ingredient Disclosure List.  
CAS# 57-85-8 is listed on Canada's Ingredient Disclosure List.  
CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 50-00-0; OEL-ARAB Republic of Egypt;TWA 2 ppm (3 mg/m<sup>3</sup>)  
OEL-AUSTRALIA;TWA 1 ppm (1.5 mg/m<sup>3</sup>);STEL 2 ppm (3 mg/m<sup>3</sup>);CAR  
OEL-BELGIUM;TWA 3 ppm (4.5 mg/m<sup>3</sup>);STEL 2 ppm (3 mg/m<sup>3</sup>);CAR  
OEL-CZECHOSLOVAKIA;TWA 0.5 mg/m<sup>3</sup>;STEL 1 mg/m<sup>3</sup>  
OEL-DENMARK;STEL 0.3 ppm (0.4 mg/m<sup>3</sup>);Carcinogen  
OEL-FINLAND;STEL 1 ppm (1.3 mg/m<sup>3</sup>);Skin  
OEL-FRANCE;STEL 2 ppm (3 mg/m<sup>3</sup>)  
OEL-GERMANY;TWA 0.5 ppm (0.6 mg/m<sup>3</sup>);Carcinogen  
OEL-HUNGARY;STEL 0.6 mg/m<sup>3</sup>;Carcinogen  
OEL-JAPAN;TWA 0.5 ppm (0.61 mg/m<sup>3</sup>);Carcinogen  
OEL-THE NETHERLANDS;TWA 1 ppm (1.5 mg/m<sup>3</sup>);STEL 2 ppm (3 mg/m<sup>3</sup>)  
OEL-THE PHILIPPINES;TMA 5 ppm (6 mg/m<sup>3</sup>)  
OEL-POLAND;TMA 2 mg/m<sup>3</sup>  
OEL-RUSSIA;TMA 0.5 ppm;STEL 0.5 mg/m<sup>3</sup>;Skin  
OEL-SWEDEN;TMA 0.5 ppm (0.6 mg/m<sup>3</sup>);STEL 1 ppm (1.3 mg/m<sup>3</sup>)  
OEL-SWITZERLAND;TMA 0.5 ppm (0.6 mg/m<sup>3</sup>);STEL 1 pp (1.2 mg/m<sup>3</sup>)  
OEL-THAILAND;TMA 3 ppm;STEL 5 ppm  
OEL-TURKEY;TMA 5 ppm (6 mg/m<sup>3</sup>)  
OEL-UNITED KINGDOM;TWA 2 ppm (2.5 mg/m<sup>3</sup>);STEL 2 ppm (2.5 mg/m<sup>3</sup>)  
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACDIU TLV  
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

\*\*\*\* SECTION 16 - ADDITIONAL INFORMATION \*\*\*\*

MSDS Creation Date: 9/02/1999 Revision #3 Date: 3/10/2003

The information above is believed to be accurate and represents the best  
information currently available to us. However, we make no warranty of  
merchantability or any other warranty, express or implied, with respect to  
such information, and we assume no liability resulting from its use. Users  
should make their own investigations to determine the suitability of the  
information for their particular purposes. In no way shall the company be  
liable for any claims, losses, or damages of any third party or for lost  
profits or any special, indirect, incidental, consequential or exemplary  
damages, however arising, even if the company has been advised of  
the possibility of such damages.