

500 ppm /4H, 6/6 killed (Union Carbide).

Carcinogenicity:

CAS# 64-67-5:

- **ACGIH:** Not listed.
- **California:** carcinogen, initial date 1/1/88
- **NTP:** Suspect carcinogen
- **IARC:** Group 2A carcinogen

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: No information found

Mutagenicity: DNA Damage: Human, HeLa cell = 20 mg.; DNA Inhibition: Human, HeLa cell = 600 umol/L.; Cytogenetic Analysis: Human, Lymphocyte = 300 umol/L.; Sex Chromosome Loss and Nondisjunction = Human, Lymphocyte = 100 umol/L.

Neurotoxicity: No information found

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: No data available. If released to soil, estimated soil adsorption coefficients ranging from 33 to 99 indicate that it may display high to very high mobility in soil; however, diethylsulfate is known to rapidly hydrolyze in water under neutral, basic and acidic conditions and this reaction is expected to dominate its fate in soil. If released to water diethylsulfate is expected to hydrolyze with an experimental half-life of 1.7 hrs at neutral pH. This reaction is catalyzed by both acids and bases.

Environmental: Diethylsulfate is not expected to bioconcentrate in fish and aquatic organisms nor is it expected to adsorb to sediment and suspended organic matter. If released to the atmosphere, diethylsulfate is expected to undergo a gas-phase reaction with water vapor with an experimental half-life of <1 day. It may also undergo atmospheric removal by wet deposition during a rain event.

Physical: No information available.

Other: No information available.

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 U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	DIETHYL SULFATE	DIETHYL SULFATE
Hazard Class:	6.1	6.1
UN Number:	UN1594	UN1594
Packing Group:	II	II

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 64-67-5 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.

CERCLA Hazardous Substances and corresponding RQs

CAS# 64-67-5: 10 lb final RQ; 4.54 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 64-67-5: immediate, delayed, fire.

Section 313

This material contains Diethyl sulfate (CAS# 64-67-5, 99%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

CAS# 64-67-5 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:

None of the chemicals in this product are listed as Hazardous Substances 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

CAS# 64-67-5 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:

WARNING: This product contains Diethyl sulfate, a chemical known to the state of California to cause cancer.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

T

Risk Phrases:

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 34 Causes burns.

R 45 May cause cancer.

R 46 May cause heritable genetic damage.

Safety Phrases:

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 53 Avoid exposure - obtain special instructions before use.

WGK (Water Danger/Protection)

CAS# 64-67-5: 2

Canada - DSL/NDSL

CAS# 64-67-5 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D2A, D1B, E.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 64-67-5 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 9/02/1997

Revision #6 Date: 2/13/2006

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 event shall Fisher 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, howsoever arising, even if Fisher has been advised of the possibility of such damages.