



**Material Safety Data Sheet**  
**Diluting fluid, CSF**

**Section 1 - Chemical Product and Company Identification**

**MSDS Name:**

Diluting fluid, CSF

**Catalog Numbers:**

LC13585

**Synonyms:**

**Company Identification:**

LabChem, Inc.  
 200 William Pitt Way  
 Pittsburgh, PA 15238

**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

**Section 2 - Composition, Information on Ingredients**

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
64-19-7	Acetic acid	9.5
548-62-9	C.i. basic violet 1	0.2

**Section 3 - Hazards Identification**

**EMERGENCY OVERVIEW**

*Appearance: dark blue*

*Caution! Flammable liquid. Corrosive. Causes severe eye irritation. Causes severe respiratory tract irritation. May cause severe skin irritation and possible burns. Flash Point: 102°F.*

*Target Organs: none known.*

**Potential Health Effects**

**Eye:**

Eye contact may result in swelling irritation, damage to the cornea and conjunctiva resulting in blurred or partial loss of vision. Eye contact may cause irritation, purple staining of conjunctiva and cornea.



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**Skin:**

Skin contact may result in irritation, pain, burns, blisters, and brown or yellow stains. Skin contact may cause irritation and necrosis.

**Ingestion:**

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Asphyxia from throat swelling can occur, perforations of the esophagus and stomach can occur. Ingestion may result in severe burns of the mouth, throat, and stomach; vomiting and diarrhea of dark blood.

**Inhalation:**

50ppm causes irritation to most individuals. Respiratory irritation, coughing, choking, headache, dizziness, weakness can occur. Inhalation may cause irritation to respiratory tract, methemoglobinemia, cyanosis.

**Chronic:**

Dental erosion, tooth discolorization, jaw necrosis, nasal ulceration, laryngitis, bronchitis, pneumonia and gastrointestinal disturbances can occur. Acetic acid sensitization dermatitis from prolonged exposure can occur. Crystal violet-prolonged skin contact may cause sensitization.

## Section 4 - First Aid Measures

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once. Cover burns with loose sterile non-medicated bandages.

**Skin:**

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes. Cover burns with a dry sterile bandage (secure, not tight).

**Ingestion:**

Do NOT induce vomiting. Get medical aid at once. If victim is conscious, give 2-4 glasses of water to dilute acid.

**Inhalation:**

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

**Notes to Physician:**

Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:**

Negligible fire and explosion hazard when exposed to heat or flame. Avoid breathing corrosive vapors, knock down with water spray. Vapors heavier than air, may travel considerable distance and flash back from source of ignition. Keep out of sewers and drains. Unknown fire and explosion hazard at lower concentrations.

**Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:**

No information found.

**Flash Point:**

102°F ( 38.89°C)

**NFPA Rating:**

CAS# 7732-18-5: Not published.

CAS # 64-19-7 health-3; flammability-2; reactivity-0



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CAS# 548-62-9: Not published.

### Explosion Limits:

Lower:        Upper:

## Section 6 - Accidental Release Measures

### General Information:

Use proper personal protective equipment as indicated in Section 8.

### Spills/Leaks:

Absorb liquid with inert or neutralizing substance such as fuller's earth, cement powder, fly ash, sand. Caustic soda may be used to neutralize. Scoop material into suitable (plastic or glass) container, label for disposal. Shut off ignition source, avoid vapors. Isolate, ventilate spill area.

## Section 7 - Handling and Storage

### Handling:

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

### Storage:

Keep away from heat and flame. Store in a cool, dry area. Store away from oxidizers.

## Section 8 - Exposure Controls, Personal Protection

### Engineering Controls:

Provide local exhaust ventilation to meet OSHA exposure limits.

### Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Acetic acid	10 ppm TWA;15 ppm STEL	10 ppm TWA; 25 mg/m3 TWA	10 ppm TWA; 25 mg/m3 TWA;
C.i. basic violet 1	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

### OSHA Vacated PELs

Acetic acid: 10 ppm TWA; 25 mg/m3 TWA  
Acetic acid: 10 ppm TWA; 25 mg/m3 TWA

## Personal Protective Equipment

### Eyes:

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

### Skin:

Wear acid protective clothing and gloves.

### Clothing:

Wear acid protective clothing and gloves.



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#### Respirators:

>100ppm- SCBAF:PD,PP; SAF:PD,PP,CF.

500ppm- CCROVF/GMOV/SAF/SCBAF.

1000ppm- SAF:PD,PP,CF. Escape-

GMOV/SCBA. Firefighting- SCBAF:PD,PP. Firefighting - SCBAF:PD,PP

## Section 9 - Physical and Chemical Properties

**Physical State:** Clear liquid

**Color:** dark blue

**Odor:** mild to pungent vinegar-like odor

**pH:** acidic

**Vapor Pressure:** No information found.

**Vapor Density:** > air

**Evaporation Rate:** < ether

**Viscosity:** No information found.

**Boiling Point:** > 212°F (> 100.00°C)

**Freezing/Melting Point:** < 32°F (< 0.00°C)

**Decomposition Temperature:** No information found.

**Solubility in water:** Miscible.

**Specific Gravity/Density:** 1.0

**Molecular Formula:** No information found.

**Molecular Weight:** No information found.

## Section 10 - Stability and Reactivity

#### Chemical Stability:

Stable under normal temperatures and pressures.

#### Conditions to Avoid:

Incompatible materials.

#### Incompatibilities with Other Materials

Oxidizing agents, attacks most metals including stainless steel and zinc, explosive or violent reactions with chromic acid or anhydride, nitric acid, perchloric acid, permanganates, sodium peroxide, potassium hydroxide, hydrogen peroxide..

#### Hazardous Decomposition Products

Oxides of nitrogen, oxides of carbon.

#### Hazardous Polymerization

Has not been reported

## Section 11 - Toxicological Information

#### RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 64-19-7: AF1225000.

CAS# 548-62-9: BO9000000.



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### LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 64-19-7:

Inhalation, mouse: LC50 = 5620 ppm/1H

Oral, rat: LD50 = 3310 mg/kg

Skin, rabbit: LD50 = 1060 mg/kg.

CAS# 548-62-9:

Oral, mouse: LD50 = 96 mg/kg

Oral, rabbit: LD50 = 150 mg/kg

Oral, rat: LD50 = 420 mg/kg.

### Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 64-19-7: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 548-62-9: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

### Epidemiology:

### Teratogenicity:

### Reproductive:

### Mutagenicity

### Neurotoxicity

## Section 12 - Ecological Information

No information found.

## Section 13 - Disposal Considerations

Dispose of in accordance with federal, state, and local regulations.

## Section 14 - Transport Information

### US DOT

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

## Section 15 - Regulatory Information

US Federal



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### TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 64-19-7 is listed on the TSCA Inventory.

CAS# 548-62-9 is listed on the TSCA Inventory.

### SARA Reportable Quantities (RQ)

CAS# 64-19-7: final RQ = 5000 pounds (2270 kg)

### CERCLA/SARA Section 313

None of the components are on this list.

### OSHA - Highly Hazardous

None of the components are on this list.

## US State

### State Right to Know

Acetic acid can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

### California Regulations

## European/International Regulations

### Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 64-19-7 is listed on Canada's DSL List.

CAS# 548-62-9 is listed on Canada's DSL List.

### Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 64-19-7 is listed on Canada's Ingredient Disclosure List.

CAS# 548-62-9 is listed on Canada's Ingredient Disclosure List.

## Section 16 - Other Information

MSDS Creation Date: August 20, 1998

Revision Date: March 13, 2004

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