



Material Safety Data Sheet Diluting Fluid for Sperm

Section 1 - Chemical Product and Company Identification

MSDS Name:

Diluting Fluid for Sperm

Catalog Numbers:

LC13587

Synonyms:

None

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 |
| 144-55-8 | Sodium bicarbonate | 5 |
| 50-00-0 | Formaldehyde | 0.4 |

Section 3 - Hazards Identification

Emergency Overview

Appearance: *Clear, colorless solution***Warning!** May be harmful if swallowed or inhaled. Vapors irritate eyes, mucous membranes, and respiratory tract. Harmful if absorbed through skin. May cause cancer.**Target Organs:** *Eyes, respiratory tract, kidneys, central nervous system*

Potential Health Effects

Eye:

May cause eye irritation, tearing, burning pain, and inflammation.

Skin:

May cause skin irritation and sensitization.

Ingestion:

May cause irritation to the gastrointestinal tract with nausea, vomiting, and diarrhea.

Inhalation:

May cause respiratory tract irritation.



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Chronic:

May cause nasal carcinoma, cirrhosis of the liver, chronic heart disease, respiratory sensitization, skin hardening and cracking, dermatitis, conjunctivitis.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid at once. Do NOT allow victim to rub or keep eyes closed.

Skin:

Get medical aid at once. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:

Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid at once.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

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

Autoignition Temperature:

Not available.

Flash Point:

Not applicable.

NFPA Rating:

CAS# 7732-18-5: Health- 0, Flammability- 0, Instability- 0.

CAS# 144-55-8: Health- 2, Flammability- 0, Instability- 1.

CAS# 50-00-0: Health- 3, Flammability- 2, Instability- 0.

Explosion Limits:

Lower: n/a Upper: n/a

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.



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Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Ventilate spill area.

Section 7 - Handling and Storage

Handling:

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

Storage:

Store capped at room temperature. Protect from heat and incompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits:

| Chemical Name: | ACGIH | NIOSH | OSHA |
|--------------------|-----------------|------------------------------|--|
| Water | none listed | none listed | none listed |
| Sodium bicarbonate | none listed | none listed | none listed |
| Formaldehyde | 0.3 ppm Ceiling | 0.016 ppm TWA 20 ppm IDLH | 0.75 ppm TWA; 0.5 ppm Action Level; 0.75 ppm TWA; 2 ppm STEL (Irritant and potential cancer hazard - see 29 CFR 1910.1048) |

OSHA Vacated PELs:

Formaldehyde: 3 ppm TWA (unless specified in 1910.1048)

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. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid
Color: Colorless
Odor: Slight pungent odor



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| | |
|-----------------------------------|----------------|
| pH: | Neutral |
| Vapor Pressure: | Not available |
| Vapor Density: | Not available |
| Evaporation Rate: | Not available |
| Viscosity: | Not available |
| Boiling Point: | Not available |
| Freezing/Melting Point: | Not available |
| Decomposition Temperature: | Not available |
| Solubility in water: | Soluble |
| Specific Gravity/Density: | 1.0 |
| Molecular Formula: | Not applicable |
| Molecular Weight: | Not applicable |

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, exposure to heat or flames.

Incompatibilities with Other Materials:

Strong oxidizing agents, acids, reacts with hydrochloric acid to form bis(chloromethyl ether), a potent carcinogen.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.

Hazardous Polymerization:

Has not been reported.

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 144-55-8: VZ0950000.

CAS# 50-00-0: LP8925000.

LD50/LC50:

CAS# 7732-18-5:

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

CAS# 144-55-8:

Oral, mouse: LD50 = 3360 mg/kg

Oral, rat: LD50 = 4220 mg/kg.

CAS# 50-00-0:

Inhalation, mouse: LC50 = 400 mg/m³/2H

Inhalation, rat: LC50 = 203 mg/m³

Oral, mouse: LD50 = 42 mg/kg

Oral, rat: LD50 = 100 mg/kg

Skin, rabbit: LD50 = 270 mg/kg.

Carcinogenicity:

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

CAS# 144-55-8: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 50-00-0: Listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, and CA Prop 65.



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Epidemiology:

In June 2004 an expert IARC group determined that there is now sufficient evidence that formaldehyde causes nasopharyngeal cancer in humans, a rare cancer in developed countries.

Teratogenicity:

No information found

Reproductive:

No information found

Mutagenicity:

No information found

Neurotoxicity:

No information found

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

TSCA:

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

CAS# 144-55-8 is listed on the TSCA Inventory.

CAS# 50-00-0 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ):

CAS# 50-00-0: final RQ = 100 pounds (45.4 kg)

CERCLA/SARA Section 313:

This material contains Formaldehyde (CAS# 50-00-0, 0.4%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

OSHA - Highly Hazardous:

CAS# 50-00-0 is considered highly hazardous by OSHA.



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US State

State Right to Know:

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

California Regulations:

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

European/International Regulations

Canadian DSL/NDSL:

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

CAS# 144-55-8 is listed on Canada's DSL List.

CAS# 50-00-0 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# 144-55-8 is not listed on Canada's Ingredient Disclosure List.

CAS# 50-00-0 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: October 21, 1997

Revision Date: September 2, 2009

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