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Fisher-Fresh Fetal Pig Specimens
45340

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Fisher-Fresh Fetal Pig Specimens

Catalog Numbers: S10325, S10385C, S10385, S10395, S10435, S15845, S15865, S15885, S15905, S15925, S15955, S15965, S15985, S18025, S18045, S18055, S18065C, S18065, S18075C, S18075, S18115C, S18115, S18125C, S18125, S18135C, S18135, S18145C, S18515, S18535, S92385

Synonyms:

Fetal pig 7-g
Company Identification: Fisher Scientific

For Information, call: 201-796-7100
Emergency Number: 201-796-7100

For CHEMTREC assistance, call: 800-424-9300

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	Elnecs#
50-00-0	Formaldehyde	0.3-0.5	unlisted
57-55-6	propylene glycol	1.0-2.0	unlisted
108-95-2	Phenol	0.1-0.3	203-632-7

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Appearance: Preserved fetal pig specimen.

Target Organs: Kidneys, central nervous system, liver, respiratory system.

Potential Health Effects

Eye: May cause severe eye irritation.

Skin: May cause severe skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

Chronic: Causes respiratory tract irritation.

Not available. Repeated skin contact may cause dermatitis with dark pigmentation of skin. Chronic exposure may result in liver and kidney damage. Chronic ingestion of phenol and inhalation of formaldehyde may cause fetal effects. Chronic inhalation of formaldehyde is associated with nasal and nasopharyngeal cancer.

Chronic: Causes respiratory tract irritation.

Not available. Repeated skin contact may cause dermatitis with dark pigmentation of skin. Chronic exposure may result in liver and kidney damage. Chronic ingestion of phenol and inhalation of formaldehyde may cause fetal effects. Chronic inhalation of formaldehyde is associated with nasal and nasopharyngeal cancer.

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**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information: Wear appropriate protective clothing to prevent contact with skin

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and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.
Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits: Lower: Not available. Upper: Not available.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container.

**** SECTION 7 - HANDLING AND STORAGE ****

Handling: Wash thoroughly after handling.

Use with adequate ventilation.

Avoid contact with eyes, skin, and clothing.

Avoid ingestion and inhalation.

Wash clothing before reuse.

Storage: Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Formaldehyde	C 0.3 ppm; C 0.37 0.016 ppm TWA; C 0.1 ppm (15 min)		none listed
propylene glycol	none listed	none listed	none listed
Phenol	5 ppm ; 19 mg/m ³ 5 ppm TWA; 19 mg/m ³ TWA; C 15.6 ppm (15 min); C 60 mg/m ³ (15 min)		5 ppm TWA; 19 mg/m ³ TWA

OSHA Vacated PELs:

Formaldehyde: 3 ppm TWA (unless specified in 1910.1048); 10 ppm STEL (30 min) (unless specified in 1910.1048); C 5 ppm (unless specified in 1910.1048)

propylene glycol: none listed

Phenol: 5 ppm TWA; 19 mg/m³ TWA

Phenol: 5 ppm TWA; 19 mg/m³ TWA

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.

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. Always use a NIOSH-approved respirator when necessary.

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

Physical State:

Solid Preserved fetal pig specimen.

Appearance:

Mild chemical odor.

pH:

Not available.

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: Not available.
Specific Gravity/Density: Not available.
Molecular Formula: Not available.
Molecular Weight: Not available

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:

Stable.
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 ****

RTECS#:

CAS# 50-00-0: LP8925000
CAS# 57-55-6: TY2000000
CAS# 108-95-2: SJ3325000
LD50/LC50:
CAS# 57-55-6: Oral, mouse: LD50 = 22 gm/kg; Oral, rabbit: LD50 = 18500 mg/kg; Oral, rat: LD50 = 20 gm/kg; Skin, rabbit: LD50 = 20800 mg/kg
CAS# 57-55-6: Oral, mouse: LD50 = 22 gm/kg; Oral, rabbit: LD50 = 18500 mg/kg; Oral, rat: LD50 = 20 gm/kg; Skin, rabbit: LD50 = 20800 mg/kg
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Carcinogenicity:

Formaldehyde -
ACGIH: A2-suspected human carcinogen
California: carcinogen
NIOSH: occupational carcinogen
NTP: Suspect carcinogen
OSHA: Possible Select carcinogen
IARC: Group 2A carcinogen
propylene glycol
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Phenol ACGIH: A2-suspected human carcinogen
California: carcinogen
NIOSH: occupational carcinogen
NTP: Suspect carcinogen
OSHA: Possible Select carcinogen
IARC: Group 3 carcinogen

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 ****

Ecotoxicity:

Not available.
Environmental Fate:
Not available.
Physical/Chemical:
Not available.
Physical/Chemical:
Not available.

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Dispose of in a manner consistent with federal, state, and local regulations.
RCRA D-Series Maximum Concentration of Contaminants: Not listed.
RCRA D-Series Chronic Toxicity Reference Levels: Not listed.
RCRA F-Series: Not listed.
RCRA P-Series: Not listed.
RCRA U-Series: waste number U188
This material is banned from land disposal according to RCRA.

US DOT

**** SECTION 14 - TRANSPORT INFORMATION ****

IMO No information available
IATA No information available.
RID/ADR No information available.
No information available.
Shipping Name: FORMALDEHYDE SOLUTIONS
Hazard Class: 3(8)(9 2)
UN Number: UN198

**** SECTION 15 - REGULATORY INFORMATION ****

A. Federal

TSCA

CAS# 50-00-0 is listed on the TSCA inventory.
CAS# 57-55-6 is listed on the TSCA inventory.
CAS# 108-95-2 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/SARA
Section 302 (RO)
None of the chemicals in this material have an RO.
Section 302 (TPQ)
CAS# 50-00-0: TPQ = 500 pounds
CAS# 108-95-2: TPQ = 500/10,000 pounds
Section 313
This material contains Formaldehyde (CAS# 50-00-0, 1.0-2.0%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.
This material contains Phenol (CAS# 108-95-2, 1.0-2.0%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

CAS# 50-00-0 is listed as a hazardous air pollutant (HAP).
CAS# 108-95-2 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.
CAS# 108-95-2 is listed as a Hazardous Substance under the CWA.
CAS# 108-95-2 is listed as a Priority Pollutant under the Clean Water Act.
CAS# 108-95-2 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA:

CAS# 50-00-0 is considered highly hazardous by OSHA.
B. State
Formaldehyde can be found on the following state right to know lists:
California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts,
Propylene glycol can be found on the following state right to know lists:
California, New Jersey, Florida, Pennsylvania, Minnesota,
Phenol can be found on the following state right to know lists:
California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:
This product contains Formaldehyde, a chemical known to the state of California to cause cancer.
The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:
The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:
California No Significant Risk Level:
CAS# 50-00-0: no significant risk level = 40 ug/day

C. International

CAS# 50-00-0 is listed on Canada's DSL/NDSL List.
CAS# 57-55-6 is listed on Canada's DSL/NDSL List.
CAS# 108-95-2 is listed on Canada's DSL/NDSL List.
CAS# 50-00-0 is listed on Canada's Ingredient Disclosure List.
CAS# 57-55-6 is listed on Canada's Ingredient Disclosure List.
CAS# 108-95-2 is listed on Canada's Ingredient Disclosure List.
European Labeling in Accordance with EC Directives
Hazard Symbols: Not available.
Risk Phrases:
Safety Phrases:

Exposure Limits:
A: Republic of Egypt: TWA 5 ppm (19 mg/m³); Skin, OEL-AUSTRALIA: TW A 5 ppm (19 mg/m³); Skin, OEL-BELGIUM: TWA 5 ppm (19 mg/m³); Skin, OEL-CZ ECHOSLOVAKIA: TWA 20 mg/m³; STEL 40 mg/m³; OEL-DENMARK: TWA 5 ppm (19 mg/m³)

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m3;Skin. OEL-FINLAND-TWA 5 ppm (19 mg/m3);STEL 10 ppm (38 mg/m3);Skin
OEL-FRANCE-TWA 5 ppm (19 mg/m3);Skin. OEL-GERMANY-TWA 5 ppm (19 mg/m
3);Skin. OEL-HUNGARY-TWA 4 mg/m3;STEL 8 mg/m3;Skin. OEL-JAPAN-TWA 5 pp
m (19 mg/m3);Skin. OEL-THE NETHERLANDS-TWA 5 ppm (19 mg/m3);Skin. OEL-
THE PHILIPPINES-TWA 5 ppm (10 mg/m3);Skin. OEL-POLAND-TWA 10 ppm. OEL-
RUSSIA-TWA 5 ppm;STEL 0.3 mg/m3;Skin. OEL-SWEDEN-TWA 1 ppm (4 mg/m3);S
TEL 2 ppm (8 mg/m3);Skin. OEL-SWITZERLAND-TWA 5 ppm (19 mg/m3);STEL 10
ppm (38 mg/m3);Skin. OEL-THAILAND-TWA 5 ppm (19 mg/m3). OEL-TURKEY-TW
A 5 ppm (19 mg/m3);Skin. OEL-UNITED KINGDOM-TWA 5 ppm (19 mg/m3);STEL
10 ppm;Skin. OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

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

Additional Information:
No additional information available.

MSDS Creation Date: September 7, 1995
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.