

Material Safety Data Sheet

Statfix

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Statfix, Fixative
Product code: SF-1, Gallon

Supplier: StatLab Medical Products
2090 Commerce Drive
McKinney, TX 75069
800-442-3573

Synonym: None
Material uses: Laboratory Reagent.
Validation date: 12/09/2013
In case of emergency: 800-424-9300 CHEMTREC (USA)
24 Hours/Day: 7 Days/Week

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Cancer Hazard, toxic by inhalation and ingestion, toxic to skin, skin sensitizer and irritant

Target Organs: Eyes, Kidney, Liver, Heart, Central Nervous System

GHS Classification: Flammable Liquid (Cat 4), Acute Toxicity, Oral (Cat 4), Skin Irritation (Cat 2), Serious Eye Damage (Cat 1), Skin Sensitisation (Cat 1), Carcinogenicity (Cat 1), Specific Target Organ Toxicity (Cat 1)

GHS Label Elements: Pictogram



HMIS Classification

Health hazard: 2
Flammability: 3
Physical hazards: 0

NFPA Rating

Health hazard: 2
Fire: 3
Reactivity Hazard: 0

Potential Health Effects

Inhalation - May be harmful if inhaled. Causes respiratory tract irritation.

Skin - May be harmful if absorbed through skin. Causes skin irritation.

Eyes - Causes eye irritation.

Ingestion - May be harmful if swallowed.

Target Organs

Central Nervous System (CNS), Skin, Liver, Kidney, Spleen, Blood

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	%
Formaldehyde	50-00-0	~10 v/v
Methyl Alcohol	67-56-1	~ 4 v/v
IPA	67-63-0	~ 4v/v
Ethyl Alcohol	64-17-5	~ 58v/v
MIBK	108-10-1	~ 1 v/v

4. FIRST AID MEASURES

- Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact:** In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation:** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion:** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

- Flammability of the product:** Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
- Extinguishing media:** Use dry chemical, CO₂, water spray (fog) or foam.
- Not suitable:** Do not use water jet.
- Special exposure hazards:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Hazardous thermal decomposition products:** Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
- Special protective equipment for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Extinguishing media:** Water spray, dry chemical, CO₂ and foam

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Spill:** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

7. HANDLING AND STORAGE

- Handling:** Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use empty containers to retain product, residue can be hazardous. Do not reuse container.
- Storage:** Store in accordance with local regulations. Store in a segregated and approved area. Store in original container, protected from direct sunlight. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult local authorities for acceptable exposure limits.

- Engineering measures:** Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Formaldehyde CAS 50-00-0 OSHA PEL 0.75ppm, 2ppm STEL; ACGIH 0.3ppm
Methanol CAS 67-56-1, OSHA PEL 200ppm; ACGIH, STEL 250ppm, TWA 200ppm
MIBK CAS 108-10-1, ACGIH/TWA 50ppm, STEL 75ppm
Ethanol CAS 64-17-5, TWA 1000ppm
IPA CAS 67-63-0, TWA 200ppm, STEL 400ppm

- Hygiene measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

- Respiratory:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Recommended: neoprene
- Eyes:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: splash goggles
- Skin:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Recommended: lab coat

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid.	Color:	Clear
Flash Point:	Open cup: 54°F	Odor:	Formaldehyde/alcoholic
pH:	6.9 - 7.1	Boiling/condensation point:	Not available.
Melting/freezing point:	Not available.	Relative density:	Not available.
Vapor pressure:	Not available.	Vapor density:	Not available.
Odor threshold:	Not available.	Evaporation rate:	Not available.
VOC:	62% (v/v)	Flammable limits:	Lower: 3.3% Upper: 19%
Solubility:	Soluble in the following materials: water		

10. STABILITY AND REACTIVITY

Chemical stability:	The product is stable.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous polymerization:	Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid:	Excessive heat.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under fire condition; carbon oxides

11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure: Skin, Eyes and Respiratory Tract

Ingestion: May cause pain, nausea, vomiting and diarrhea. Lower doses may decreased body temperature, pain in digestive tract, shallow respiration, weak pulse unconsciousness and death.

Skin: May cause skin irritation, scaling, cracking with redness, pain and including allergic skin reaction

Inhalation: Vapor could be toxic, cause severe irritation and sensitization. Symptoms include a burning sensation, coughing, shortness of breath, nausea, headache or dizziness. Severe over-exposure may produce lung damage, or choking or death.

Eye Contact: Vapors may cause eye irritation, pain and blurred vision.

Carcinogenicity: IARC, Listed; NTP, Known or suspect carcinogen; ACGIH, Confirmed or suspect carcinogen to Humans; Select or possible select carcinogen.

Mutagenicity: No known significant effects or critical hazards. Lab animal studies suggest formaldehyde may be Mutagenic.

Teratogenicity: No known significant effects or critical hazards except possibly in laboratory animals.

Reproductive: No known significant effects or critical hazards except possibly in laboratory animals.

Acute toxicity; Oral LD50 NA, Inhalation LC50 NA, Dermal LD50 NA,

12. ECOLOGICAL INFORMATION

Environmental effects: Formaldehyde has a half-life of less than one day. Readily biodegradable

Other adverse effects: No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT (US)

UN number: UN1987, Alcohol NOS (ethanol/methanol/MIBK) 3, II

IMDG

UN number: UN1987, Alcohol NOS (ethanol/methanol/MIBK) 3, II

IATA

UN number: UN1987, Alcohol NOS (ethanol/methanol/MIBK) 3, II

15. REGULATORY INFORMATION

Formaldehyde is listed on TSCA (formaldehyde is NL on TSCA), FORMA, DSL, PICCS, ENCS, AICS, China and KECL inventory. Methanol is below the threshold of 1% for SARA 313 values.

United States

HCS Classification: Flammable liquid, highly toxic material, Irritating material, Target organ effects

U.S. Federal regulations: TSCA 8(a) IUR: Partial exemption

United States inventory (TSCA 8b): All components are listed or exempted.

TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Light Green SF, Yellowish; Ethyl Alcohol; Methanol

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Eosin Y: Immediate (acute) health hazard; Methanol: Fire hazard, Immediate (acute)

Health hazard, Delayed (chronic) health hazard; Ethanol: Fire hazard, Immediate (acute)

Health hazard, Delayed (chronic) health hazard

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

DEA List I & II Chemicals (Precursor Chemicals):

Not listed

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting Requirements:	Methanol	67-56-1	99 - 100
Supplier notification:	Methanol	67-56-1	99 - 100

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

Massachusetts Substances:

The following are listed: Ethyl Alcohol; Methanol; MIBK

New Jersey Hazardous Substances:

The following components are listed: Ethyl Alcohol; Methanol; MIBK

New York Acutely Hazardous Substances: The following components are listed: Methanol

Pennsylvania RTK Hazardous Substances: The following components are listed: Ethyl Alcohol; Methanol; MIBK

Rhode Island Hazardous Substances: None of the components are listed.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (MIBK/formaldehyde).

<u>Ingredient name</u> <u>acceptable dosage</u>	<u>Cancer</u>	<u>Reproductive</u>	<u>No significant risk</u> <u>level</u>	<u>Maximum</u> <u>level</u>
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