

# Cytology Fixative Revision Date: 06/09/15

# **Safety Data Sheet**

# 1. PRODUCT AND COMPANY IDENTIFICATION

**1.1 Product identifier** Trade name: Cytology Fixative

Product code(s):

1.2 Relevant identified uses Laboratory Reagent

**Supplier:** Astral Diagnostics Inc.

1224 Forest Parkway

Suite 200

West Deptford, NJ 08066

800-441-0366 Technical Service Monday-Friday: 8:00 -5:00 PM

Synonym: None.

Material uses: LaboratoryReagent.

Validation date: 12/11/2013

In case of emergency: 800-424-9300 CHEMTREC (USA)

24 Hours/Day: 7 Days/Week

# 2. HAZARDS IDENTIFICATION

### **Emergency Overview**





Signal Word: Danger!

#### Hazard statement(s):

H225: Highly flammable liquid and vapor (Cat 2).

H315: Causes skin irritation (Cat 2).

**H319:** Causes serious eye irritation (Cat 2/2A).

**H335/336:** May cause respiratory irritation, and drowsiness or dizziness (Cat 3).

#### Precautionary statement(s):

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

**P261:** Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

**P305+351+338:** Ifineyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### **OSHA Hazards**

Flammable liquid, Target Organ Effect, Irritant, Toxic by skin absorption, Carcinogen

#### **Target Organs**

Liver, Kidney, Nerves, Heart

#### **GHS Classification**

Flammable liquids (Category 2), Skin irritation (Category 2), Eye irritation (Category 2A) Specific target organ toxicity - single exposure (Category 3)

#### **HMIS Classification**

Health hazard: 1

Flammability: 3 Physical hazards: 0 **NFPA Rating** Health hazard: 1

Fire: 3

Reactivity Hazard: 0

#### **Potential Health Effects**

Inhalation - Causes respiratory tract irritation.

Skin - Causes skin irritation. Eyes - Causes eye irritation.

Ingestion - Harmful if swallowed.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name CAS number % by weight

 Isopropyl
 67-63-0
 73

 Acetone
 67-64-1
 20

 PEG
 32522-68-3
 3

#### 4. FIRST AID MEASURES

**Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least15

minutes, occasionally lifting the upper and lower eyelids. Get medicalattention immediately.

**Skin contact:** In case of contact, flush skin with plenty of water for at least 15 minuteswhile removing contaminated

clothing and shoes. Wash clothing before reuse. Cleanshoes thoroughly before reuse. Get medical

attention immediately.

**Inhalation:** Move exposed person to fresh air. If not breathing, if breathing is irregular or ifrespiratory arrest occurs,

provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie,

belt or waistband. Get medical attentionimmediately.

**Ingestion:** Call medical doctor or poison control center immediately. Wash out mouth with water.Do not induce

vomiting unless directed to do so by medical personnel. Never giveanything by mouth to an unconscious

person. 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 burstwith the risk of a subsequent explosion. Run-off 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 keepfire-exposed containers cool.

**Hazardous thermal** 

**decomposition products:** Decomposition products may include the following materials:

carbon dioxide

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.

Special remarks on

**explosion hazards:** Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel

aconsiderable distance to a source of ignition and flash back.

#### 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 fromentering. Do not touch or walkthrough spilled material. Shut off all ignition sources. Noflares, smoking or flames in hazard area. Donot breathe vapor or mist. Provideadequate ventilation. Wear appropriate respirator when ventilationis inadequate. Puton 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:

Storage:

Stop leak if without risk. Move containers from spill area. Approach release from pwind. 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 localregulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent materialmay 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 ifwater-soluble or absorb with an inert dry material and place in an appropriate wastedisposal 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 isinadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from acompatible 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. Takeprecautionary 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, residuecan be hazardous. Do not reuse container.

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 readyfor use. Containers that have been opened must be carefully resealed and kept uprightto prevent

leakage.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ingredient Exposure limits** 

Acetone ACGIH (United States, 1996).

STEL: 1782 mg/m<sup>3</sup> 15 minute(s). TWA:  $1188 \text{ mg/m}^3 8 \text{ hour(s)}$ . OSHA (United States, 1989). STEL: 2400 mg/m<sup>3</sup> 15 minute(s). TWA: 1800 mg/m<sup>3</sup> 8 hour(s).

ACGIH TLV (United States, 3/2012).

TWA: 500 ppm 8 hour(s). TWA:  $1188 \text{ mg/m}^3 8 \text{ hour(s)}$ . STEL: 750 ppm 15 minute(s).

STEL:  $1782 \text{ mg/m}^3 15 \text{ minute(s)}$ .

OSHA PEL 1989 (United States, 3/1989).

TWA: 750 ppm 8 hour(s). TWA: 1800 mg/m<sup>3</sup> 8 hour(s). STEL: 1000 ppm 15 minute(s). STEL:  $2400 \text{ mg/m}^3 15 \text{ minute(s)}$ . NIOSH REL (United States, 1/2013).

TWA: 250 ppm 10 hour(s).

TWA: 590 mg/m<sup>3</sup> 10 hour(s). **OSHA PEL (United States, 6/2010).** 

TWA: 1000 ppm 8 hour(s). TWA: 2400 mg/m<sup>3</sup> 8 hour(s).

Consult local authorities for acceptable exposure limits.

**Engineering measures:** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation orother

engineering controls to keep worker exposure to airborne contaminants below anyrecommended or statutory limits. The engineering controls also need to keep gas, vaporor dust concentrations below any lower explosive limits. Use explosion-proof

ventilationequipment.

**Hygiene measures:** Wash hands, forearms and face thoroughly after handling chemical products, beforeeating,

smoking and using the lavatory and at the end of the working period. Appropriate

techniques should be used to remove potentially contaminated clothing. Washcontaminated clothing before reusing. Ensure that eyewash stations and safety showersare close to the

workstation location.

Personal protection

**Respiratory:** Use a properly fitted, air-purifying or air-fed respirator complying with an

approvedstandard if a risk assessment indicates this is necessary. Respirator selection must bebased on known or anticipated exposure levels, the hazards of the product and the

safeworking limits of the selected respirator.

**Hands:** Chemical-resistant, impervious gloves complying with an approved standard should beworn

at all times when handling chemical products if a risk assessment indicates this isnecessary.

Recommended: neoprene

**Eyes:** Safety eyewear complying with an approved standard should be used when a

riskassessment indicates this is necessary to avoid exposure to liquid splashes, mists

ordusts. Recommended: splash goggles

**Skin:** Personal protective equipment for the body should be selected based on the task

beingperformed and the risks involved and should be approved by a specialist before

handlingthis product. Recommended: lab coat

**Environmental exposure** 

controls:

Emissions from ventilation or work process equipment should be checked to ensure theycomply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will

benecessary to reduce emissions to acceptable levels.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Liquid.Color:ClearFlash Point:Closed cup: 11.667°C (53°F)Odor:Pungent.

**pH:** Not available. **Boiling/condensation pt:**57°F

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:** 100 % (w/w)

**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:** Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze,

solder, drill, grind or expose containers to heat or sources of ignition.

**Materials to avoid:** Highly reactive or incompatible with the following materials: oxidizing materials. Reactive or

incompatible with the following materials: metals and acids.

Hazardous decomposition

**products:** Under normal conditions of storage and use, hazardous decomposition products should

not occur.

**Conditions of reactivity:** Highly flammable in the presence of the following materials or conditions: open flames,

sparks and static discharge, heat, shocks and mechanical impacts and oxidizing materials. Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts and oxidizing materials. Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a

considerable distance to a source of ignition and flash back.

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Oral LD50

Isopropanol-Rat, 5840 mg/kg

**Inhalation LC50** 

Isopropanol- Rat, >10000 ppm 6h

**Dermal LD50** 

Isopropanol- Rabbit, 12800 mg/kg

Other information on acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

Eyes: no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

**Aspiration hazard** 

no data available

Potential health effects

**Inhalation** Toxic if inhaled. Causes respiratory tract irritation.

**Ingestion** Toxic if swallowed.

**Skin** Toxic if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation. **Signs and Symptoms of Exposure** 

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### 12. ECOLOGICAL INFORMATION

**Toxicity** 

no data available

Persistence and degradability

no data available

**Bioaccumulative potential** 

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

#### 13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listingmay 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: 1090 Class: 3 Packing group: II

Proper shipping name: Acetone

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG** 

UN number: 1090 Class: 3 Packing group: II Proper shipping name: UN1090, Acetone, 3, II

Marine pollutant: No

**IATA** 

UN number: 1090 Class: 3, Packing Group II Proper shipping name: UN1090, Acetone, 3 II

**TDG** 

UN No: 1090 Class 3, Packing Group II

Proper Shipping Name UN1090, Acetone, 3, II

#### 15. REGULATORY INFORMATION

**United States** 

**HCS Classification:** Flammable liquid

Toxic material Irritating material Target organ effects

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

United States inventory (TSCA 8b):TSCA (Toxic Substance Control Act): This product

is listedon 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: Acetone

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

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

**DEA List I Chemicals (** 

Precursor Chemicals): Not listed

**DEA List II Chemicals ( Essential Chemicals):** Listed

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.

RTK: Acetone, CAS 67-64-1

Connecticut, Massachusetts, Minnesota, New Jersey, Pennsylvania, Rhode Island

California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient nameCancerReproductiveNo significant risk Maximum acceptable dosage

level level

**CANADA** 

**WHMIS (Canada):** Class B-2: Flammable liquid Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists: CEPA Toxic substances: The following components are listed: Volatile

Organic compounds

**Canadian ARET**: None of the components are listed.

Canadian NPRI: NA

Volatile organiccompounds

**Alberta Designated Substances**: None of the components are listed. **Ontario Designated Substances**: None of the components are listed. **Quebec Designated Substances**: None of the components are listed.

**CEPA DSL / CEPA NDSL:** 

All components are listed or exempted.

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

International regulations
International lists:

**Australia inventory (AICS)**: All components are listed or exempted. **China inventory (IECSC)**: All components are listed or exempted.

**Japan inventory**: All components are listed or exempted. **Korea inventory**: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or

exempted.

**Philippines inventory (PICCS)**: All components are listed or exempted.

#### 16. OTHER INFORMATION

#### National Fire ProtectionAssociation (U.S.A.)



#### Notice to reader

This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labeling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall Astral Diagnostics, Inc 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 resulting from use of or reliance upon this information.