



## SAFETY DATA SHEET

In Accordance with ISO/DIS 11014

Review Date 08/16/2022

Supersedes Date: 09/08/2016

Revision Date 08/16/2022

### 1 Identification of the Substance/Mixture and Company

**Product Name:** Frozen Section Fixative

**SDS Code:** SSFXFSF

**Product Description:** Tissue Fixative

**Manufacturer/Supplier:**

StatLab Medical Products  
2090 Commerce Drive  
McKinney, TX 75069  
800-442-3573  
www.statlab.com

**Emergency Telephone Number:** CHEMTREC 800-424-9300 (USA & Canada)  
CHEMTREC 703-527-3887 (International)  
Non-transport 800-225-8867 (USA)

### 2 Hazards Identification

**Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 1A H350 May cause cancer.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xn; Harmful

R20-68: Harmful by inhalation. Possible risk of irreversible effects.



Xi; Irritant

R36/38: Irritating to eyes and skin.

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**Product Name: Frozen Section Fixative**


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Xi; Sensitizing

R43: May cause sensitisation by skin contact.



F; Highly flammable

R11: Highly flammable.

**Information concerning particular hazards for human and environment:**

The product has to be labeled due to the calculation procedure of international guidelines.

**Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

**Label elements****GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).**Hazard pictograms**

GHS02



GHS07



GHS08

**Signal word** Danger**Hazard-determining components of labeling:**

glyoxal

propan-2-ol

**Hazard statements**

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

May cause cancer.

May cause drowsiness or dizziness.

**Precautionary statements**

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

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves / eye protection / face protection.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

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IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification system:**
**NEPA ratings (scale 0 - 4)**

Health = 1

Fire = 2

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = 1

Fire = 2

Reactivity = 0

**Other hazards**
**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 3 Composition

**Chemical characterization: Mixtures**

**Description:** Mixture of the substances listed below with nonhazardous additions.

**Dangerous components:**

|          |             |      |
|----------|-------------|------|
| 67-63-0  | propan-2-ol | <80% |
| 107-22-2 | glyoxal     | <10% |
| 107-21-1 | ethanediol  | <5%  |
| 64-17-5  | ethanol     | <5%  |

### 4 First Aid Measures

**Description of first aid measures**

**General information:** Immediately remove any clothing soiled by the product.

**After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** If symptoms persist consult doctor.

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed:** No further relevant information available.

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**Product Name: Frozen Section Fixative****Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

## 5 Firefighting Measures

**Extinguishing media****Suitable extinguishing agents:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**Special hazards arising from the substance or mixture:** No further relevant information available.**Advice for firefighters****Protective equipment:** No special measures required.

## 6 Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and Storage

**Handling:****Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

**Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** Store in a cool location.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:**

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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**Product Name: Frozen Section Fixative**
**Specific end use(s):** No further relevant information available.

### 8 Exposure Controls/Personal Protection

**Additional information about design of technical systems:** No further data; see item 7.

**Control parameters**

| Components with limit values that require monitoring at the workplace: |                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>67-63-0 propan-2-ol</b>                                             |                                                                                                                                                                                                                                       |
| PEL                                                                    | Long-term value: 980 mg/m <sup>3</sup> , 400 ppm                                                                                                                                                                                      |
| REL                                                                    | Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm<br>Long-term value: 980 mg/m <sup>3</sup> , 400 ppm                                                                                                                                |
| TLV                                                                    | Short-term value: 984 mg/m <sup>3</sup> , 400 ppm<br>Long-term value: 492 mg/m <sup>3</sup> , 200 ppm<br>BEI                                                                                                                          |
| <b>107-22-2 glyoxal</b>                                                |                                                                                                                                                                                                                                       |
| TLV                                                                    | Long-term value: 0.1* mg/m <sup>3</sup><br>DSEN;*as inhalable fraction and vapor                                                                                                                                                      |
| WEEL                                                                   | Long-term value: 0.1 mg/m <sup>3</sup><br>DSEN; (H)                                                                                                                                                                                   |
| <b>107-21-1 ethanediol</b>                                             |                                                                                                                                                                                                                                       |
| TLV                                                                    | Short-term value: NIC-127* NIC-10** mg/m <sup>3</sup> , NIC-50* ppm<br>Long-term value: NIC-63.5* mg/m <sup>3</sup> , NIC-25* ppm<br>Ceiling limit value: (100) mg/m <sup>3</sup><br>(H); *inh. fraction + vapor,P:**inh. fraction, H |
| <b>64-17-5 ethanol</b>                                                 |                                                                                                                                                                                                                                       |
| PEL                                                                    | Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm                                                                                                                                                                                    |
| REL                                                                    | Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm                                                                                                                                                                                    |
| TLV                                                                    | Short-term value: 1880 mg/m <sup>3</sup> , 1000 ppm                                                                                                                                                                                   |
| <b>Ingredients with biological limit values:</b>                       |                                                                                                                                                                                                                                       |
| <b>67-63-0 propan-2-ol</b>                                             |                                                                                                                                                                                                                                       |
| BEI                                                                    | 40 mg/L<br>Medium: urine<br>Time: end of shift at end of workweek<br>Parameter: Acetone (background, nonspecific)                                                                                                                     |

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls:**
**Personal protective equipment:**
**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

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**Product Name: Frozen Section Fixative**
**Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed goggles

## 9 Physical and Chemical Properties

**Information on basic physical and chemical properties**
**General Information**
**Appearance**

|                        |                 |
|------------------------|-----------------|
| <b>Form:</b>           | Fluid           |
| <b>Color:</b>          | Colorless       |
| <b>Odor:</b>           | Like alcohol    |
| <b>Odor threshold:</b> | Not determined. |

|                  |                 |
|------------------|-----------------|
| <b>pH-value:</b> | Not determined. |
|------------------|-----------------|

**Change in condition**

|                                     |                |
|-------------------------------------|----------------|
| <b>Melting point/Melting range:</b> | Undetermined.  |
| <b>Boiling point/Boiling range:</b> | 50 °C (122 °F) |

|                     |               |
|---------------------|---------------|
| <b>Flash point:</b> | 13 °C (55 °F) |
|---------------------|---------------|

|                                       |                 |
|---------------------------------------|-----------------|
| <b>Flammability (solid, gaseous):</b> | Not applicable. |
|---------------------------------------|-----------------|

|                              |                 |
|------------------------------|-----------------|
| <b>Ignition temperature:</b> | 425 °C (797 °F) |
|------------------------------|-----------------|

|                                   |                 |
|-----------------------------------|-----------------|
| <b>Decomposition temperature:</b> | Not determined. |
|-----------------------------------|-----------------|

|                       |                              |
|-----------------------|------------------------------|
| <b>Auto igniting:</b> | Product is not selfigniting. |
|-----------------------|------------------------------|

|                             |                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------|
| <b>Danger of explosion:</b> | Product is not explosive. However, formation of explosive air/vapor mixtures are possible. |
|-----------------------------|--------------------------------------------------------------------------------------------|

**Explosion limits:**

|               |            |
|---------------|------------|
| <b>Lower:</b> | 2.0 Vol %  |
| <b>Upper:</b> | 12.0 Vol % |

|                                         |                   |
|-----------------------------------------|-------------------|
| <b>Vapor pressure at 20 °C (68 °F):</b> | 43 hPa (32 mm Hg) |
|-----------------------------------------|-------------------|

|                          |                 |
|--------------------------|-----------------|
| <b>Density:</b>          | Not determined. |
| <b>Relative density:</b> | Not determined. |
| <b>Vapour density:</b>   | Not determined. |

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|                                                 |                                            |
|-------------------------------------------------|--------------------------------------------|
| <b>Evaporation rate:</b>                        | Not determined.                            |
| <b>Solubility in / Miscibility with Water:</b>  | Fully miscible.                            |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| <b>Dynamic:</b>                                 | Not determined.                            |
| <b>Kinematic:</b>                               | Not determined.                            |
| <b>Other information:</b>                       | No further relevant information available. |

## 10 Stability and Reactivity

**Reactivity:** No further relevant information available.**Chemical stability:****Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**Possibility of hazardous reactions:** No dangerous reactions known.**Conditions to avoid:** No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicology Information

**Information on toxicological effects****Acute toxicity:****LD/LC50 values that are relevant for classification:****67-63-0 propan-2-ol**

|            |          |                      |
|------------|----------|----------------------|
| Oral       | LD50     | 5045 mg/kg (rat)     |
| Dermal     | LD50     | 12800 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 30 mg/l (rat)        |

**107-22-2 glyoxal**

|        |      |                      |
|--------|------|----------------------|
| Oral   | LD50 | 7070 mg/kg (rat)     |
| Dermal | LD50 | 10000 mg/kg (rabbit) |

**Primary irritant effect:****On the skin:** Irritant to skin and mucous membranes.**On the eye:** Irritating effect.**Sensitization:** Sensitization possible through skin contact.**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

**Carcinogenic categories****IARC (International Agency for Research on Cancer)**

|         |             |   |
|---------|-------------|---|
| 67-63-0 | propan-2-ol | 3 |
| 64-17-5 | ethanol     | 1 |

**NTP (National Toxicology Program)**

None of the ingredients are listed.

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**Product Name: Frozen Section Fixative**
**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

## 12 Ecological Information

**Toxicity:****Aquatic toxicity:** No further relevant information available.**Persistence and degradability:** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential:** No further relevant information available.**Mobility in soil:** No further relevant information available.**Additional ecological information:****General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects:** No further relevant information available.

## 13 Disposal Considerations

**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport Information

**UN-Number**

DOT, ADR, IMDG, IATA

UN1219

**UN proper shipping name**

DOT

Isopropanol

ADR

1219 Isopropanol

IMDG, IATA

ISOPROPANOL (ISOPROPYL ALCOHOL)

**Transport hazard class(es)**

DOT

**Class**

3 Flammable liquids

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|                                                                                   |                                                                                                                 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Label</b>                                                                      | 3                                                                                                               |
| <b>ADR, IMDG, IATA</b>                                                            |                                                                                                                 |
|  |                                                                                                                 |
| <b>Class</b>                                                                      | 3 Flammable liquids                                                                                             |
| <b>Label</b>                                                                      | 3                                                                                                               |
| <b>Packing group</b>                                                              |                                                                                                                 |
| <b>DOT, ADR, IMDG, IATA</b>                                                       | II                                                                                                              |
| <b>Environmental hazards</b>                                                      |                                                                                                                 |
| <b>Marine pollutant:</b>                                                          | No                                                                                                              |
| <b>Special precautions for user:</b>                                              | Warning: Flammable liquids                                                                                      |
| <b>Danger code (Kemler):</b>                                                      | 33                                                                                                              |
| <b>EMS Number:</b>                                                                | F-E,S-D                                                                                                         |
| <b>Stowage Category</b>                                                           | B                                                                                                               |
| <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>   | Not applicable.                                                                                                 |
| <b>Transport/Additional information:</b>                                          |                                                                                                                 |
| <b>DOT</b>                                                                        |                                                                                                                 |
| <b>Quantity limitations</b>                                                       | On passenger aircraft/rail: 5 L<br>On cargo aircraft only: 60 L                                                 |
| <b>ADR</b>                                                                        |                                                                                                                 |
| <b>Excepted quantities (EQ)</b>                                                   | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| <b>IMDG</b>                                                                       |                                                                                                                 |
| <b>Limited quantities (LQ)</b>                                                    | 1L                                                                                                              |
| <b>Excepted quantities (EQ)</b>                                                   | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| <b>UN "Model Regulation":</b>                                                     | UN 1219 ISOPROPANOL, 3, II                                                                                      |

## 15 Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture  
SARA

### Section 355 (extremely hazardous substances):

None of the ingredients are listed.

### Section 313 (Specific toxic chemical listings):

67-63-0 propan-2-ol

107-21-1 ethanediol

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**Product Name: Frozen Section Fixative****TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**Proposition 65****Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

107-21-1 ethanediol

64-17-5 ethanol

**Carcinogenic categories****EPA (Environmental Protection Agency)**

None of the ingredients are listed.

**TLV (Threshold Limit Value established by ACGIH)**

67-63-0 propan-2-ol

A4

107-22-2 glyoxal

A4

107-21-1 ethanediol

A4

64-17-5 ethanol

A3

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).**Hazard pictograms**

GHS02



GHS07



GHS08

**Signal word** Danger**Hazard-determining components of labeling:**

glyoxal

propan-2-ol

**Hazard statements**

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

May cause cancer.

May cause drowsiness or dizziness.

**Precautionary statements**

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

Use explosion-proof electrical/ventilating/lighting/equipment.

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**Product Name: Frozen Section Fixative**

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Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves / eye protection / face protection.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**National regulations:****Additional classification according to Decree on Hazardous Materials:**

Carcinogenic hazardous material group III (dangerous).

**Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.

Exceptions can be made by the authorities in certain cases.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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## 16 Other Information

This information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of the material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

**Department issuing SDS:** Regulatory Department

**Contact:** Phone 800-442-3573

**Date of preparation / last revision** 09/08/2016

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
BEI: Biological Exposure Limit  
Flam. Liq. 2: Flammable liquids – Category 2  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Skin Sens. 1: Skin sensitisation – Category 1  
Muta. 2: Germ cell mutagenicity – Category 2  
Carc. 1A: Carcinogenicity – Category 1A  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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