1 Identification

· Product identifier
· Trade name: CELLPACK DST
· Article number: No other identifiers.
· Recommended use and restriction on use
  · Recommended use: Diagnostic testing
  · Restrictions on use: No further relevant information available.
· Details of the supplier of the Safety Data Sheet
  · Manufacturer/Supplier:
    SYSMEX AMERICA, Inc
    577 Aptakisic Road
    Lincolnshire, IL 60069 USA
    Phone: 847-996-4500
    1-800-3SYSMEX (1-800-379-7639)
  · Emergency telephone number:
    ChemTel Inc.
    (800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

· Classification of the substance or mixture
  Skin Sens. 1 H317 May cause an allergic skin reaction.
· Additional information:
  There are no other hazards not otherwise classified that have been identified.
  0 percent of the mixture consists of ingredient(s) of unknown toxicity.

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

![GHS07](image)

· Signal word Warning
· Hazard-determining components of labeling:
  maleic acid
  1,2-benzisothiazol-3(2H)-one

(Contd. on page 2)
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)

Trade name: CELLPACK DST

Hazard statements
H317 May cause an allergic skin reaction.

Precautionary statements
P261 Avoid breathing mist, vapors, or spray.
P280 Wear protective gloves and eye protection.
P272 Contaminated work clothing must not be allowed out of the workplace.
P362 Take off contaminated clothing and wash before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P302+P352 If on skin: Wash with plenty of water.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard description:

3 Composition/information on ingredients

Chemical characterization: Mixtures
Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

<table>
<thead>
<tr>
<th>Chemical Reference</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>110-16-7</td>
<td>maleic acid</td>
</tr>
<tr>
<td>3811-73-2</td>
<td>pyridine-2-thiol 1-oxide, sodium salt</td>
</tr>
<tr>
<td>2634-33-5</td>
<td>1,2-benzisothiazol-3(2H)-one</td>
</tr>
</tbody>
</table>

Additional information:
For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.
For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

Description of first aid measures

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

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:
Immediately remove any clothing soiled by the product.
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

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

After swallowing:
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.

(Contd. on page 3)
Trade name: CELLPACK DST

- **Information for doctor:**
  - **Most important symptoms and effects, both acute and delayed**
    - Allergic reactions
    - Gastric or intestinal disorders when ingested.
    - Nausea in case of ingestion.
    - Slight irritant effect on skin and mucous membranes.
    - Slight irritant effect on eyes.
  - **Danger** May cause sensitisation by inhalation and skin contact.
  - **Indication of any immediate medical attention and special treatment needed**
    - Medical supervision for at least 48 hours.
    - Treat skin and mucous membrane with antihistamine and corticoid preparations.
    - Contains maleic acid, 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
  - CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**
  - Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
  - **Protective equipment:**
    - Wear self-contained respiratory protective device.
    - Wear fully protective suit.
  - **Additional information** Cool endangered receptacles with water spray.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Wear protective equipment. Keep unprotected persons away.
  - Ensure adequate ventilation.
  - For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
- **Environmental precautions:** 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).
  - Ensure adequate ventilation.
  - Dispose contaminated material as waste according to item 13.
  - Send for recovery or disposal in suitable receptacles.
7 Handling and storage

Handling:
- Precautions for safe handling
  Prevent formation of aerosols.
  Use only in well ventilated areas.
  Avoid splashes or spray in enclosed areas.
- Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:
- Requirements to be met by storerooms and receptacles:
  Avoid storage near extreme heat, ignition sources or open flame.
- Information about storage in one common storage facility:
  Store away from foodstuffs.
  Store away from oxidizing agents.
- Further information about storage conditions: None.
- 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:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures:
      The usual precautionary measures for handling chemicals should be followed.
      Keep away from foodstuffs, beverages and feed.
      Immediately remove all soiled and contaminated clothing.
      Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.

- **Engineering controls:** No further relevant information available.
- **Breathing equipment:**  
  Not required under normal conditions of use.  
  Use suitable respiratory protective device when aerosol or mist is formed.  
  For spills, respiratory protection may be advisable.

- **Protection of hands:**  
  - **Protective gloves**
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
    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:**

  - **Safety glasses**

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment** No further relevant information available.

- **Risk management measures**  
  See Section 7 for additional information.

  No further relevant information available.

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - **Form:** Liquid
    - **Color:** Light yellow
    - **Odor:** Odorless
Trade name: CELLPACK DST

- Odor threshold: Not determined.
- pH-value at 20 °C (68 °F): 7.8
- Change in condition
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: 100 °C (212 °F)
- Flash point: Not applicable.
- Flammability (solid, gaseous): Not applicable.
- Auto-ignition temperature: Not determined.
- Decomposition temperature: Not determined.
- Auto igniting: Product is not self-igniting.
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.
- Vapor pressure: Not determined.
- Density: Not determined.
  - Relative density at 20 °C (68 °F): 1.131
  - Vapour density: Not determined.
  - Evaporation rate: Not determined.
- Solubility in / Miscibility with
  - Water: Fully miscible.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- Other information: No further relevant information available.
10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided:
  No decomposition if used and stored according to specifications.
- Possibility of hazardous reactions
  Toxic fumes may be released if heated above the decomposition point.
  Reacts with strong oxidizing agents.
  Reacts with strong alkali.
  Reacts with certain metals.
- Conditions to avoid
  Store away from oxidizing agents.
- Incompatible materials:
  No further relevant information available.
- Hazardous decomposition products:
  Carbon monoxide and carbon dioxide
  Nitrogen oxides (NOx)
  Sulfur oxides (SOx)

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values that are relevant for classification: None.
- Primary irritant effect:
  - on the skin: Slight irritant effect on skin and mucous membranes.
  - on the eye: Slight irritant effect on eyes.
- Sensitization: Sensitization possible through skin contact.
- Subacute to chronic toxicity: No further relevant information available.
- Additional toxicological information:
  - Irritant
    Danger through skin absorption.
    The product shows the following dangers according to internally approved calculation methods for preparations:
- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    None of the ingredients is listed.
  - NTP (National Toxicology Program)
    None of the ingredients is listed.
Trade name: CELLPACK DST

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:
      - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
      - Water hazard class 1 (Self-assessment): slightly hazardous for water
  - Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation:
    - Small quantities can be disposed of with household waste.
    - Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
    - The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.
- 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: Not Regulated
- DOT, ADN, IMDG, IATA: Not Regulated
- UN proper shipping name: Not Regulated
- DOT, ADN, IMDG, IATA: Not Regulated
- Transport hazard class(es): Not Regulated
- DOT, ADN, IMDG, IATA: Not Regulated
- Class: Not Regulated
- Packing group: Not Regulated
- DOT, IMDG, IATA: Not Regulated
- Environmental hazards:
  - Marine pollutant: No
  - Special precautions for user: Not applicable
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
  - SARA
    - Section 355 (extremely hazardous substances):
      None of the ingredients is listed.
    - Section 313 (Specific toxic chemical listings):
      None of the ingredients are listed.
  - TSCA (Toxic Substances Control Act):
    All ingredients are listed.
  - Proposition 65 (California)
    - Chemicals known to cause cancer:
      None of the ingredients are listed.
    - Chemicals known to cause reproductive toxicity for females:
      None of the ingredients are listed.

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Trade name: CELLPACK DST

- Chemicals known to cause reproductive toxicity for males:
  None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:
  None of the ingredients is listed.

- Carcinogenic categories
  - EPA (Environmental Protection Agency)
    None of the ingredients is listed.
  - IARC (International Agency for Research on Cancer)
    None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)
    None of the ingredients is listed.
  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    None of the ingredients is listed.

16 Other information
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Date of preparation / last revision: 04/20/2015

- 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)
  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
  Skin Sens. 1: Sensitisation - Skin, Hazard Category 1