1 Identification

- Product identifier
- Trade name: CELLPACK-3D (II)
- 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
  Met. Corr. 1 H290 May be corrosive to metals.
- 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

- Signal word Warning
- Hazard statements
  H290 May be corrosive to metals.
- Precautionary statements
  P234 Keep only in original container.
  P390 Absorb spillage to prevent material damage.

(Contd. on page 2)
Trade name: CELLPACK-3D (II)

P406 Store in corrosive resistant container with a resistant inner liner.

### Composition/information on ingredients

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

| Dangerous components: |  
|-----------------------|---
| 7647-01-0 hydrochloric acid | <1.0% |

**Additional information:**
For the listed ingredient(s), the identity and exact percentage(s) are being withheld as a trade secret.

### First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
  - Clean with water and soap.
  - If skin irritation is experienced, 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.
- **Information for doctor:**
  - Most important symptoms and effects, both acute and delayed
    - Slight irritant effect on eyes.
    - Slight irritant effect on skin and mucous membranes.
    - Gastric or intestinal disorders when ingested.
  - Danger No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed
    - No further relevant information available.

### Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **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.
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- Advice for firefighters
- Protective equipment:
  Wear self-contained respiratory protective device.
  Wear fully protective suit.
- Additional information No further relevant information available.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Ensure adequate ventilation.
  For large spills, wear protective clothing.
  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).
  Dispose contaminated material as waste according to item 13.
  Send for recovery or disposal in suitable receptacles.
- 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
  Prevent formation of aerosols.
  Avoid splashes or spray in enclosed areas.
  Use only in well ventilated 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:
  Store only in the original receptacle.
  Unsuitable material for receptacle: aluminium.
  Information about storage in one common storage facility:
  Store away from foodstuffs.
  Store away from metals.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- 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

<table>
<thead>
<tr>
<th>Components with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td>7647-01-0 hydrochloric acid</td>
</tr>
<tr>
<td>PEL (USA) Ceiling limit value: 7 mg/m³, 5 ppm</td>
</tr>
<tr>
<td>REL (USA) Ceiling limit value: 7 mg/m³, 5 ppm</td>
</tr>
<tr>
<td>TLV (USA) Ceiling limit value: 2.98 mg/m³, 2 ppm</td>
</tr>
</tbody>
</table>

- Additional information: No further relevant information available.
- 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.
    Wash hands before breaks and at the end of work.
    Do not inhale gases / fumes / aerosols.
    Avoid contact with the eyes.
    Avoid close or long term contact with the 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:
  Wear protective gloves to handle contents of damaged or leaking units.
  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Eye protection:
  Safety glasses

- Body protection: Acid resistant protective clothing
- Limitation and supervision of exposure into the environment No further relevant information available.
9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Liquid
      - Color: Clear
    - Odor:
      - Odor: Odorless
      - Odor threshold: Not determined.
    - pH-value at 20 °C (68 °F): 2.2
  - 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.
  - Oxidizing properties: Non-oxidizing.
  - Vapor pressure: Not determined.
  - Density at 20 °C (68 °F): 1 g/cm³ (8.345 lbs/gal)
  - Relative density: Not determined.
  - 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.

(Contd. on page 6)
10 Stability and reactivity

- Reactivity: No further relevant information available.
- 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 metals forming hydrogen.
  - Corrosive action on metals.
- Conditions to avoid
  - Store away from oxidizing agents.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products:
  - Carbon monoxide and carbon dioxide
  - Chlorine compounds

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: No sensitizing effects known.
- Additional toxicological information:
- 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.
  - OSHA-Ca (Occupational Safety & Health Administration)
    None of the ingredients is listed.

Probable Routes of Exposure
- Ingestion.
- Inhalation.
- Eye contact.
- Skin contact.
- Repeated Dose Toxicity: No further relevant information available.
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)

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- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):
  - Germ cell mutagenicity Based on available data, the classification criteria are not met.
  - Carcinogenicity Based on available data, the classification criteria are not met.
  - Reproductive toxicity Based on available data, the classification criteria are not met.
  - STOT-single exposure Based on available data, the classification criteria are not met.
  - STOT-repeated exposure Based on available data, the classification criteria are not met.
  - Aspiration hazard Based on available data, the classification criteria are not met.

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.
  - Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation:
    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
- DOT, IMDG, IATA UN3264
- UN proper shipping name

Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1.3 gal).

(Contd. on page 6)
Trade name: CELLPACK-3D (II)

- **DOT**
  - Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid)

- **IMDG, IATA**
  - CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID)

**Transport hazard class(es)**

- **DOT**
  - Class: 8 Corrosive substances
  - Label: 8

- **IMDG, IATA**
  - Class: 8 Corrosive substances
  - Label: 8
  - Packing group: III
  - Environmental hazards: No
  - Marine pollutant: Warning: Corrosive substances
  - EMS Number: F-A,S-B
  - Segregation groups: Acids
  - Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

**Transport/Additional Information:**

- **DOT**
  - Quantity limitations:
    - On passenger aircraft/rail: 5 L
    - On cargo aircraft only: 60 L
  - Remarks: See 173.154(d) for corrosive material exceptions

(Contd. on page 9)
15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

- Section 355 (extremely hazardous substances):
  7647-01-0 hydrochloric acid

- 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.

- 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)
  7647-01-0 hydrochloric acid 3

- TLV (Threshold Limit Value established by ACGIH)
  7647-01-0 hydrochloric acid A4

- 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 07/10/2015 / -
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
Met. Corr. 1: Corrosive to metals, Hazard Category 1

Sources
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