1 Identification

- **Trade name:** STROMATOLYSER-IM
- **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**
  - Acute Tox. 4 H332 Harmful if inhaled.
  - Eye Dam. 1 H318 Causes serious eye damage.
- **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**
  - GHS05 GHS07
- **Signal word** Danger

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

Printing date 04/20/2015
Reviewed on 04/20/2015

Trade name: STROMATOLYSER-IM

Hazard-determining components of labeling:
Polyethylene glycol monooleyl ether
sodium N-lauroylsarcosinate

Hazard statements
H332 Harmful if inhaled.
H318 Causes serious eye damage.

Precautionary statements
P261 Avoid breathing mist, vapors, or spray.
P280 Wear protective gloves and eye protection.
P271 Use only outdoors or in a well-ventilated area.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a poison center/doctor if you feel unwell.

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>CAS Number</th>
<th>Ingredient</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>9004-98-2</td>
<td>Polyethylene glycol monooleyl ether</td>
<td>1-5%</td>
</tr>
<tr>
<td>137-16-6</td>
<td>sodium N-lauroylsarcosinate</td>
<td>&lt;1.0%</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:
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Take affected persons out into the fresh air.

After inhalation:
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
Provide oxygen treatment if affected person has difficulty breathing.
In case of irregular breathing or respiratory arrest provide artificial respiration.
In case of unconsciousness place patient stably in side position for transportation.

(Contd. on page 3)
Trade name: STROMATOLYSER-IM

- **After skin contact:**
  Immediately wash with water and soap and rinse thoroughly.
  If skin irritation is experienced, consult a doctor.
- **After eye contact:**
  Protect unharmed eye.
  Remove contact lenses if worn.
  Rinse opened eye for several minutes under running water. Then 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**
    Headache
    Coughing
    Dizziness
    Breathing difficulty
    Strong irritant with the danger of severe eye injury.
    Gastric or intestinal disorders when ingested.
    Nausea in case of ingestion.
  - **Danger**
    Harmful if inhaled.
    Causes serious eye damage.
  - **Indication of any immediate medical attention and special treatment needed**
    Medical supervision for at least 48 hours.
    If necessary oxygen respiration treatment.

### 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.
    Do not inhale explosion gases or combustion gases.
    Wear fully protective suit.
Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)

Trade name: STROMATOLYSER-IM

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Use respiratory protective device against the effects of fumes/dust/aerosol.
  Wear protective equipment. Keep unprotected persons away.
  Ensure adequate ventilation.
- 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.
  Ensure adequate ventilation.
  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.
    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:
    Store in cool, dry conditions in well sealed receptacles.
    Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

(Contd. of page 3)

(Contd. on page 5)
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:
  Use suitable respiratory protective device in case of insufficient ventilation.
  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.
Trade name: STROMATOLYSER-IM

- **Eye protection:**
  Contact lenses should not be worn.
  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:** Clear
  - **Odor:** Odorless
  - **Odor threshold:** Not determined.

  - **pH-value at 20 °C (68 °F):** 7

  - **Change in condition**
    - **Melting point/Melting range:** Undetermined.
    - **Boiling point/Boiling range:** Undetermined.

  - **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.
Trade name: STROMATOLYSER-IM

- **Vapor pressure:** Not determined.
- **Density:** Not determined.
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with Water:** Soluble.
- **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**
  - **Conditions to avoid** Store away from oxidizing agents. Keep away from heat and direct sunlight.
  - **Incompatible materials:** No further relevant information available.
  - **Hazardous decomposition products:** Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)

(Contd. on page 8)
11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - LD/LC50 values that are relevant for classification:
      | Compound | Inhalative LC50/4h |
      |----------|-------------------|
      | 137-16-6 sodium N-lauroylsarcosinate | 0.05 - 0.5 mg/l (rat) (4 hr) |
    - Primary irritant effect:
      - on the skin: Slight irritant effect on skin and mucous membranes.
      - on the eye: Strong irritant with the danger of severe eye injury.
      - Sensitization: No sensitizing effects known.
    - Subacute to chronic toxicity: No further relevant information available.
    - Additional toxicological information:
      Harmful
      Irritant
      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.
    - OSHA-Ca (Occupational Safety & Health Administration)
      None of the ingredients is listed.

- Probable Routes of Exposure
  - Inhalation.
  - Eye contact.
  - Skin contact.

- Acute effects (acute toxicity, irritation and corrosivity): Harmful if inhaled.
- Repeated Dose Toxicity: No further relevant information available.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: 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.

14 Transport information

- **UN-Number**
  - 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**
  - 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.
Trade name: STROMATOLYSER-IM

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.

- 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
  Acute Tox. 4: Acute toxicity, Hazard Category 4
  Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

- Sources
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