SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier
GHS Product Identifier Not applicable.
Chemical Name Sodium toluenesulfonate, 93% Powder
Trade name NAXONATE® ST
CAS No. 12068-03-0

Relevant identified uses of the substance or mixture and uses advised against
Identified use(s) Industrial Cleaners, Photographic Chemicals, Printing Application
Uses advised against None

Details of the supplier of the safety data sheet
Company Identification Nease Co. LLC
10740 Paddys Run Road
Harrison, OH 45030
Telephone (513) 738-1255
Telephone (Product Information) (888) 762-7373
Fax 513-587-2828
Only Representative None assigned

Emergency telephone number
Emergency Phone No. (513) 738-1255
CHEMTREC 24 hr. +1 (800) 424-9300 (Collect call accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture
OSHA HCS (29 CFR 1910.1200) Eye Irrit. 2
Skin Irrit. 2

Label elements
Hazard Symbol

Warning

Hazard statement(s) Causes serious eye irritation. Causes skin irritation.
Precautionary statement(s) Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Other hazards Not classified as PBT or vPvB.

Additional Information None
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous ingredient(s)</th>
<th>%/W/W</th>
<th>CAS No.</th>
<th>Hazard statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium toluenesulfonate</td>
<td>&gt; 93</td>
<td>12068-03-0</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Causes skin irritation.</td>
</tr>
</tbody>
</table>

Additional Information - None

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Inhalation: Move person to fresh air. Apply artificial respiration if necessary. Keep patient at rest and give oxygen if breathing difficult.

Skin Contact: Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water. If irritation develops and persists, get medical attention.

Eye Contact: If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. If eye irritation persists, get medical advice/attention.

Ingestion: Do not give anything by mouth to an unconscious person. Obtain immediate medical attention.

Most important symptoms and effects, both acute and delayed: None

Indication of any immediate medical attention and special treatment needed: None

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

-Suitable Extinguishing Media: Extinguish with carbon dioxide, dry chemical, foam or waterspray.

-Unsuitable Extinguishing Media: None known

Special hazards arising from the substance or mixture: Carbon monoxide, Carbon dioxide, Sulphur oxides.

Advice for fire-fighters: Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling.

Environmental precautions: None known

Methods and material for containment and cleaning up: Sweep spilled substances into containers. Consult an accredited waste disposal contractor or the local authority for advice.

Reference to other sections: None

Additional Information: None
SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities
- Storage Temperature
  Keep container/package tightly closed in a cool, well-ventilated place.
- Incompatible materials
  Oxidizing agents

Specific end use(s)
Industrial Cleaners, Photographic Chemicals, Printing Application

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA ppm)</th>
<th>STEL (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>----</td>
<td>PEL (OSHA) TEL (OSHA)</td>
<td>PEL (ACGIH) TLV (ACGIH)</td>
</tr>
</tbody>
</table>

- STEL: Short Term Exposure Limit

Exposure controls
Appropriate engineering controls
Local exhaust recommended.

Personal protection equipment
Eye/face protection
Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)
Gloves (Neoprene or Natural rubber)

Respiratory protection
No personal respiratory protective equipment normally required.

Thermal hazards
Not normally required.

Environmental Exposure Controls
None assigned

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- Appearance
  Powder
- Colour
  White / Cream
- Odour
  No odour
- Odour threshold (ppm)
  Not available
- pH (Value)
  6 - 9 (40% Solution)
- Melting point (°C) / Freezing point (°C)
  228 (estimated)
- Boiling point/boiling range (°C):
  533 (estimated)
- Flash point (°C)
  Not available
- Evaporation rate
  Not available
- Flammability (solid, gas)
  Not available
- Explosive limit ranges
  Not applicable
Vapour pressure (Pascal)  
2.63E-011 (estimated)

Vapour density (Air=1)  
Not available

Density (g/ml)  
0.4 - 0.5

Solubility (Water)  
Soluble

Solubility (Other)  
Not available

Partition coefficient (n-Octanol/water)  
Log Kow: -2.4 (estimated)

Auto ignition point (°C)  
Not available

Decomposition temperature (°C)  
Not available

Kinematic Viscosity (mPa·s) @ 22°C  
Not available

Explosive properties  
Not explosive.

Oxidising properties  
Not oxidising.

Other information  
Not available

SECTION 10: STABILITY AND REACTIVITY
Reactivity  
Stable under normal conditions.

Chemical stability  
Stable.

Possibility of hazardous reactions  
None anticipated.

Conditions to avoid  
None known

Incompatible materials  
Oxidizing agents

Hazardous Decomposition Product(s)  
Carbon monoxide, Carbon dioxide, Sulphur oxides

SECTION 11: TOXICOLOGICAL INFORMATION
Information on toxicological effects

Sodium toluenesulfonate (CAS No. 12068-03-0)

Acute toxicity  
Oral LD50 = 6500 mg/kg (rat)
Inhalation LC50 > 557,000 mg/m³

Irritation  
Causes irritation to eyes and skin.

Corrosivity  
Not to be expected*

Sensitisation  
Not to be expected*

Repeated dose toxicity  
Not to be expected*

Carcinogenicity  
Not to be expected*

Mutagenicity  
Not to be expected*

Toxicity for reproduction  
Not to be expected*

*This assessment is based on information available on similar products.

IARC, NTP, OSHA, ACGIH do not list this product or any components thereof as known or suspected carcinogen.

Other information  
None known.

SECTION 12: ECOLOGICAL INFORMATION
Toxicity

Sodium toluenesulfonate (CAS No. 12068-03-0)

No data. Unlikely to cause harmful effects.

Persistence and degradability  
Readily biodegradable. (100% after 3 days)

Bioaccumulative potential  
The product has low potential for bioaccumulation.

Mobility in soil  
No data

Results of PBT and vPvB assessment  
Not classified as PBT or vPvB.

Other adverse effects  
None known.

SECTION 13: DISPOSAL CONSIDERATIONS
Waste treatment methods  
Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

Additional Information  
None known.
SECTION 14: TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)  Not classified as dangerous for transport.

UN number
Proper Shipping Name
Transport hazard class(es)
Packing Group
Hazard label(s)
Environmental hazards
Special precautions for user

Land transport (ADR/RID)  Not classified as dangerous for transport.

UN number
Proper Shipping Name
Transport hazard class(es)
Packing Group
Hazard label(s)
Environmental hazards
Special precautions for user

Sea transport (IMDG)  Not classified as dangerous for transport.

UN number
Proper Shipping Name
Transport hazard class(es)
Packing Group
Marine Pollutant
Special precautions for user

Air transport (ICAO/IATA)  Not classified as dangerous for transport.

UN number
Proper Shipping Name
Transport hazard class(es)
Packing Group
Environmental hazards
Special precautions for user

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  Not applicable.

SECTION 15: REGULATORY INFORMATION

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

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.
Canada Domestic Substance List (DSL) - Listed

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
<th>RQ (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
</tbody>
</table>

SARA 311/312 - Hazard Categories:

☐ Fire  ☐ Sudden Release  ☐ Reactivity  ☒ Immediate (acute)  ☐ Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>----</td>
<td>----</td>
</tr>
</tbody>
</table>

SARA 302 - Extremely Hazardous Substances (40 CFR 355):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>----</td>
<td>----</td>
</tr>
</tbody>
</table>
SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16.

Date of preparation: February 21, 2014

Additional Information: None.

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