SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Product name: TS-BIOHS
Use of substance/mixture: PC35: Washing and cleaning products (including solvent based products).

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

ERIKS, Sevillaweg 75, 3047 AL Rotterdam Tel: +31 10 245 53 95

1.4 EMERGENCY TELEPHONE NUMBER

Tel (in case of emergency): +31 30 274 8888 (24/7)

SECTION 2 HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification under CLP: Eye Irrit. 2: H319
Most important adverse effects: Causes serious eye irritation.

2.2 LABEL ELEMENTS

Label elements:
Hazard statements: H319: Causes serious eye irritation.
Hazard pictograms: GHS07: Exclamation mark

Signal words: Warning
Precautionary statements:
P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.

2.3 OTHER HAZARDS

PBT: This product is not identified as a PBT/vPvB substance.
SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

HAZARDOUS INGREDIENTS:
BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS -
REACH REGISTERED NUMBER(S): 01-2119985163-33

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP CLASSIFICATION</th>
<th>PERCENT</th>
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<tbody>
<tr>
<td>284-664-9</td>
<td>84961-74-0</td>
<td>-</td>
<td>Skin Irrit. 2: H315;</td>
<td>1-10%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2: H319</td>
<td></td>
</tr>
</tbody>
</table>

Contains ............................................................Non Pathogenic organisms- Class 1 (European Federation of BioTechnology)

SECTION 4 FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Skin contact ..............................................................Wash immediately with plenty of soap and water.
Eye contact .............................................................Bathe the eye with running water for 15 minutes.
Ingestion .................................................................Wash out mouth with water.
Inhalation ...............................................................Not applicable.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Skin contact ..............................................................There may be irritation and redness at the site of contact.
Eye contact .............................................................There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
Ingestion .................................................................There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
Inhalation ...............................................................There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects ........................................Immediate effects can be expected after short-term exposure.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Immediate / special treatment .................................Eye bathing equipment should be available on the premises.

SECTION 5 FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Extinguishing media ..............................................Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Exposure hazards ....................................................In combustion emits toxic fumes.

5.3 ADVICE FOR FIRE-FIGHTERS

Advice for fire-fighters ..........................................Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
SECTION 6  ACCIDENTAL RELEASE MEASURES

6.1  PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
Personal precautions .................................................. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2  ENVIRONMENTAL PRECAUTIONS
Environmental precautions ....................................... Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3  METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP
Clean-up procedures ................................................ Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4  REFERENCE TO OTHER SECTIONS
Reference to other sections ................................. Refer to section 8 of SDS.

SECTION 7  HANDLING AND STORAGE

7.1  PRECAUTIONS FOR SAFE HANDLING
Handling requirements ................................................. Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

7.2  CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES
Storage conditions ...................................................... Store in a cool, well ventilated area. Keep container tightly closed.

7.3  SPECIFIC END USE(S)
Specific end use(s) .................................................. No data available.
SECTION 8  EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS
Workplace exposure limits ................................................. No data available.

DNEL/PNEC VALUES

HAZARDOUS INGREDIENTS:
BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPD

<table>
<thead>
<tr>
<th>EXPOSURE</th>
<th>VALUE</th>
<th>POPULATION</th>
<th>EFFECT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>3.33mg/m3</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td>Dermal</td>
<td>0.94 mg/kg/day</td>
<td>Workers</td>
<td>Systemic</td>
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<tr>
<td>Inhalation</td>
<td>0.82 mg/m3</td>
<td>Consumers</td>
<td>Systemic</td>
</tr>
<tr>
<td>Dermal</td>
<td>0.47 mg/m3</td>
<td>Consumers</td>
<td>Systemic</td>
</tr>
<tr>
<td>Oral</td>
<td>0.47 mg/kg/day</td>
<td>Consumers</td>
<td>Systemic</td>
</tr>
<tr>
<td>Fresh water</td>
<td>0.268mg/l</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Marine water</td>
<td>0.0268mg/l</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Soil (agricultural)</td>
<td>35mg/kg</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fresh water sediments</td>
<td>8.1mg/kg</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Marine sediments</td>
<td>8.1mg/kg</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>STP</td>
<td>1.67mg/L</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

8.2 EXPOSURE CONTROLS
Engineering measures .................................................... Ensure there is sufficient ventilation of the area.
Respiratory protection .................................................. Self-contained breathing apparatus must be available in case of emergency.
Hand protection ......................................................... Protective gloves.
Eye protection ............................................................ Tightly fitting safety goggles. Ensure eye bath is to hand.
Skin protection ......................................................... Protective clothing.

SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES
State ................................................................. Liquid
Colour ............................................................. Off-white
Odour ............................................................... Sweet-smelling
Solubility in water ................................................ Slightly soluble
Boiling point/range°C ........................................... >35
Melting point/range°C ........................................... >0
Flash point°C .................................................... >93
Relative density .................................................. 0.900
pH ................................................................. 5-7
VOC g/l ........................................................... 250

9.2 OTHER INFORMATION
Other information ..................................................... No data available.
SECTION 10  STABILITY AND REACTIVITY

10.1 REACTIVITY
Reactivity .....................................................................................................Stable under recommended transport or storage conditions.

10.2 CHEMICAL STABILITY
Chemical stability .............................................................................Stable under normal conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS
Hazardous reactions  ....................................................................Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 CONDITIONS TO AVOID
Conditions to avoid  .......................................................................Heat.

10.5 INCOMPATIBLE MATERIALS
Materials to avoid  .............................................................................Strong oxidising agents. Strong acids.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS
Haz. decomp. products  ...........................................................In combustion emits toxic fumes.

SECTION 11  TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

HAZARDOUS INGREDIENTS:
BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS

<table>
<thead>
<tr>
<th>ORAL</th>
<th>RAT</th>
<th>LD50</th>
<th>&gt;2000</th>
<th>mg/kg</th>
</tr>
</thead>
</table>

RELEVANT HAZARDS FOR PRODUCT:

HAZARD       | ROUTE | BASIS                |
-------------|-------|----------------------|
Serious eye damage/irritation | OPT   | Hazardous: calculated |

SYMPTOMS / ROUTES OF EXPOSURE

Skin contact .............................................................. There may be irritation and redness at the site of contact.
Eye contact .............................................................. There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
Ingestion ................................................................. There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
Inhalation ................................................................. There may be irritation of the throat with a feeling of tightness in the chest.
Delayed / immediate effects ........................................ Immediate effects can be expected after short-term exposure.
SECTION 12 ECOLOGICAL INFORMATION

12.1 TOXICITY

HAZARDOUS INGREDIENTS:
BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDs

<table>
<thead>
<tr>
<th>Aquatic plants</th>
<th>48H EC50</th>
<th>&gt;10 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daphnia magna</td>
<td>96H EC50</td>
<td>15 mg/l</td>
</tr>
<tr>
<td>FISH</td>
<td>96H LC50</td>
<td>1-5 mg/l</td>
</tr>
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</table>

12.2 PERSISTENCE AND DEGRADABILITY
Persistence and degradability ......................... Biodegradable.

12.3 BIOACCUMULATIVE POTENTIAL
Bioaccumulative potential ................................. No bioaccumulation potential.

12.4 MOBILITY IN SOIL
Mobility .......................................................... Readily absorbed into soil.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT
Persistence (P-):
Bioaccumulation (B-):
Toxicity (T-):
Persistence result ................................................. not P-
Bioconcentration factor (BCF) ......................... >=500
Bioaccumulation result ....................................... not B-
Toxicity result .................................................... not T-

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6 OTHER ADVERSE EFFECTS
Other adverse effects ........................................ Negligible ecotoxicity.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS
Disposal operations ......................................... Transfer to a suitable container and arrange for collection by specialised disposal company.

NB .............................................................. The user’s attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14 TRANSPORT INFORMATION
Transport class .................................................. This product does not require a classification for transport.
SECTION 15  REGULATORY INFORMATION

15.1  SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE
Specific regulations .......................................................Not applicable.

15.2  CHEMICAL SAFETY ASSESSMENT
Chemical safety assessment ...........................................A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16  OTHER INFORMATION

Other information ...........................................................according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Phrases used in s.2 and s.3 ...............................................H315: Causes skin irritation.
H319: Causes serious eye irritation.

Legal disclaimer ..............................................................The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.