SAFETY DATA SHEET

WeylClean® SAS 93

SECTION 1. IDENTIFICATION

Product name : WeylClean® SAS 93
Substance name : Sulfonic acids, C10-C18-Alkane, Sodium salts (93% active)
CAS 68037-49-0

Manufacturer or supplier's details
Company : WeylChem Performance Products GmbH
Industriepark Kalle-Albert
Kastelerstr. 45
65203 Wiesbaden
Germany
Telephone : 0611 962 5658
Prepared by : artur.kessler@weylchem.com

Emergency telephone number : +1 215 207 0061 (24 H)

Recommended use of the chemical and restrictions on use
Recommended use : Detergent

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200
Acute toxicity (Oral) : Category 4
Skin irritation : Category 2
Serious eye damage : Category 1

GHS label elements
Hazard pictograms : 

Signal word : Danger

Hazard statements : H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements : Prevention:
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear eye protection/ face protection.
P280 Wear protective gloves.

**Response:**
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P330 Rinse mouth.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

**Disposal:**
P501 Dispose of contents/container to an approved waste disposal plant.

**Other hazards**
None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Substance / Mixture</th>
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**SECTION 4. FIRST AID MEASURES**

**General advice**
Remove/Take off immediately all contaminated clothing.

**If inhaled**
If inhaled, remove to fresh air.
Get medical advice/attention.

**In case of skin contact**
In case of contact, immediately flush skin with plenty of water.

**In case of eye contact**
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**If swallowed**
Get medical attention immediately.

**Most important symptoms and effects, both acute and delayed**
None known.

**Notes to physician**
Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**
**Suitable extinguishing media:** Water spray jet
Foam

**Unsuitable extinguishing media:** Carbon dioxide (CO2)
Dry powder
High volume water jet

**Specific hazards during fire-fighting:**
In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO2)

**Special protective equipment for firefighters:** Self-contained breathing apparatus

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**
Use personal protective equipment.
Wearing appropriate personal protective equipment, contain spill, ventilate area of spill or leak, remove all sparking devices or ignition sources, carefully collect into suitable container.

**Environmental precautions:**
Do not let product enter drains.
Do not contaminate water.
Avoid release to the environment.

**Methods and materials for containment and cleaning up:** Use mechanical handling equipment.
Flush away traces with water.

### SECTION 7. HANDLING AND STORAGE

**Advice on protection against fire and explosion:**
Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

**Advice on safe handling:**
Handle and open container with care.
Avoid dust accumulation in enclosed space.
Minimize dust generation and accumulation.

**Conditions for safe storage:**
Keep only in the original container.
Keep container tightly closed.

**Technical measures/Precautions:**
Store in a dry place.

**Materials to avoid:**
Keep away from food and drink.
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters
No level has been established by OSHA, NIOSH, ACGIH.

**Engineering measures**
- Handle only in a place equipped with local exhaust (or other appropriate exhaust).

**Personal protective equipment**

**Hand protection**
- Break through time: > 481 min
- Glove thickness: >= 0.5 mm
- Remarks: Long-term exposure
  - Nitrile rubber
  - Impervious gloves

- Break through time: > 481 min
- Glove thickness: >= 0.5 mm
- Remarks: Short-term exposure
  - Nitrile rubber
  - Impervious gloves

**Eye protection**
- Safety glasses

**Skin and body protection**
- Protective suit

**Protective measures**
- Avoid contact with skin.
- Avoid contact with eyes.
- Do not breathe dust.

**Hygiene measures**
- Wash hands before breaks and at the end of workday.
- Use protective skin cream before handling the product.
- Take off immediately all contaminated clothing and wash it before reuse.
- Do not eat, drink or smoke when using this product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**
- Pastilles

**Colour**
- yellow

**Odour**
- characteristic

**pH**
- ca. 7 (20 °C)
  - Concentration: 10 g/l

**Melting point/range**
- > 350 °C
  - Method: DSC
Boiling point/boiling range: > 360 °C
Decomposition: no
Method: DSC

Flash point: Not applicable
Evaporation rate: Not applicable
Self-ignition: 
Upper explosion limit: Not applicable
Lower explosion limit: Not applicable
Vapour pressure: < 0.00001 hPa
Relative vapour density: Not applicable
Relative density: No data available
Density: 0.62 g/cm³
Bulk density: ca. 600 kg/m³

Solubility(ies):
Water solubility: 320 g/l (25 °C)
Solubility in other solvents: No data available

Partition coefficient: n-octanol/water: log Pow: 0.2
Ignition temperature: Not applicable
Decomposition temperature: > 360 °C

Viscosity:
Viscosity, dynamic: Not applicable
Viscosity, kinematic: Not applicable

Flow time: Not applicable
Explosive properties: No data available
Oxidizing properties: No data available
Surface tension: 34 mN/m, 20 °C
Dust explosion class: No data available
Minimum ignition energy: No data available
Particle size: No data available
SECTION 10. STABILITY AND REACTIVITY

Reactivity: See section 10.3. "Possibility of hazardous reactions"

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Stable
Stable

Conditions to avoid: None known.

Incompatible materials: not known

Hazardous decomposition products: Carbon monoxide
Carbon dioxide (CO2)
Sodium oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

no

Acute toxicity

Product:
Acute oral toxicity: LD50 (Rat, male and female): > 500 - 2,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity: No data available

Acute dermal toxicity: LD50 (Mouse, female): > 2,000 mg/kg
Method: Expert judgement
GLP: no

Skin corrosion/irritation

Product:
Assessment: Irritating to skin.
Result: irritating

Serious eye damage/eye irritation

Product:
Result: Risk of serious damage to eyes.
Assessment: Risk of serious damage to eyes.
Method: OECD Test Guideline 405
The toxicological data has been taken from products of similar composition.
Respiratory or skin sensitisation

**Product:**
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: negative  
GLP: no  
The toxicological data has been taken from products of similar composition.

Germ cell mutagenicity

**Product:**
Germ cell mutagenicity - Assessment: Animal testing did not show any mutagenic effects.

Carcinogenicity

**Product:**
No data available  
Carcinogenicity - Assessment: No evidence of carcinogenicity in animal studies.

Reproductive toxicity

**Product:**
Reproductive toxicity - Assessment: No toxicity to reproduction

STOT - single exposure

**Product:**
No data available

STOT - repeated exposure

**Product:**
No data available

Repeated dose toxicity

**Product:**
Species: Rat  
NOAEL: 200 mg/kg  
Application Route: oral (feed)  
Method: Other  
GLP: no

Species: Mouse  
NOAEL: 500 mg/kg  
Method: Other
Aspiration toxicity

Product:

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish:
- LC50 (Danio rerio (zebra fish)): 1 - 10 mg/l
  Exposure time: 96 h
  Test Type: static test
  Method: OECD Test Guideline 203
  GLP: no

Toxicity to daphnia and other aquatic invertebrates:
- EC50 (Daphnia magna (Water flea)): 9.81 mg/l
  Exposure time: 48 h
  Method: OECD Test Guideline 202
  GLP: yes

Toxicity to algae:
- EC50 (Desmodesmus subspicatus (green algae)): > 61 mg/l
  End point: Growth rate
  Exposure time: 72 h
  Analytical monitoring: yes
  Method: OECD Test Guideline 201
  GLP: yes

Toxicity to fish (Chronic toxicity):
- NOEC (Oncorhynchus mykiss (rainbow trout)): 0.85 mg/l
  Exposure time: 28 d
  End point: Other
  Analytical monitoring: yes
  Method: OECD Test Guideline 204
  GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
- NOEC (Daphnia magna (Water flea)): 0.36 mg/l
  Exposure time: 22 d
  End point: Reproduction rate
  Test Type: semi-static test
  Method: OECD Test Guideline 202
  GLP: yes

Toxicity to microorganisms:
- NOEC (Pseudomonas putida): 600 mg/l
  End point: Toxicity to bacteria
  Test Type: Growth inhibition
  Method: DIN 38412 T.8
  GLP: no

Toxicity to soil dwelling organisms:
- NOEC (Eisenia fetida (earthworms)): 470 mg/kg
  Exposure time: 56 d
End point: Reproduction
Method: OECD Test Guideline 222
GLP: yes

Persistence and degradability

**Product:**

**Biodegradability**
- Test Type: aerobic
- Inoculum: activated sludge
- Biodegradation: 78%
- Exposure time: 28 days
- Method: OECD Test Guideline 301B
- GLP: no
- Readily biodegradable, according to appropriate OECD test.

Inoculum: activated sludge
- Biodegradation: 89%
- Exposure time: 28 days
- Method: OECD Test Guideline 301E
- Readily biodegradable, according to appropriate OECD test.

Test Type: aerobic
- Inoculum: activated sludge
- Biodegradation: 96.2%
- Exposure time: 34 days
- Method: OECD 303A
- Readily biodegradable, according to appropriate OECD test.

**Chemical Oxygen Demand (COD)**
- 2,065 mg/g

**Dissolved organic carbon (DOC)**
- 400 mg/g

**Physico-chemical removability**
- No data available

Bioaccumulative potential

**Product:**

**Bioaccumulation**
- Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

**Partition coefficient: n-octanol/water**
- log Pow: 0.2

Mobility in soil

**Product:**

**Distribution among environmental compartments**
- Adsorption/Soil
  - Koc: 50
  - Method: OECD Test Guideline 106
  - Not expected to adsorb on soil.
Other adverse effects

Product: Environmental fate and pathways
Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Results of PBT and vPvB assessment
This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Additional ecological information
The product should not be allowed to enter drains, water courses or the soil.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues
Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

Contaminated packaging
Packaging that is not properly emptied must be disposed of as the unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations

49 CFR
Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

SARA 302
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313
This product does not contain any toxic chemical listed under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986.
SECTION 16. OTHER INFORMATION

Full text of other abbreviations
AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RO - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative
Further information

**NFPA:**

- Health
- Flammability
- Instability
- Special hazard.

**HMIS® IV:**

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<thead>
<tr>
<th>Category</th>
<th>Rating</th>
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<tbody>
<tr>
<td>HEALTH</td>
<td>3</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>1</td>
</tr>
<tr>
<td>PHYSICAL HAZARD</td>
<td>0</td>
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</tbody>
</table>

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Observe national and local legal requirements
Avoid contact with skin and eyes.
Wear suitable protective equipment.
Wash thoroughly after handling.

Revision Date: 10/02/2018

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.