GPS Safety Summary

Alcohols, C_{12-18}, ethoxylated, sulfates, sodium salts

Chemical Identity

**Name:** Alcohols, C_{12-18}, ethoxylated, sulfates, sodium salts

**CAS number:** 68081-91-4

**Molecular formula:** not applicable, UVCB

**Structure**

![Structure Diagram](image)

**IUPAC name:**

Alcohols, C_{12-18}(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salt

Product Uses

Alcohols, C_{12-18}, ethoxylated, sulfates, sodium salts belongs to the group of alcohol ethoxysulfates (AES) and is a UVCB (substance of unknown or variable composition) with a carbon-chain distribution. The substance is characterized by linear, even-numbered alkyl chains with a C-chain distribution range of C_{12} = 45-60 %, C_{14} = 15-25 %, C_{16} = 5-15 %, C_{18} = 10-25 %. The content of free fatty alcohols is < 5%. It is manufactured by sulfation of alkyl ethoxylate and subsequent neutralization with caustic soda. Its main application is as a surface active agent and in general used for manufacturing of bulk chemicals, cosmetics and personal care products, for formulation of detergents and cleaning products and for construction chemicals.

Benefits

Texapon PLT 270 is an anionic base surfactant which is primarily derived from natural alcohols with strong cleaning and foaming properties and with optimal cleaning properties for hard surface cleaners.
Health Information

Human Health Safety Assessment

*Note: The information contained in the table below may be useful to someone handling the concentrated substance such as a manufacturer or transporter. Consumers are not likely to come in contact with the concentrated substance. The data, while verifiable, are not intended to be comprehensive nor replace the data found in the (M)SDS.*

<table>
<thead>
<tr>
<th>Effect Assessment</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute Toxicity</strong></td>
<td>In animal studies the substance is virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. The statements have been derived from products of a similar structure or composition.</td>
</tr>
<tr>
<td><strong>Irritation</strong></td>
<td>Irritating to skin. Risk of serious damage to eyes. The statements have been derived from products of a similar structure or composition.</td>
</tr>
<tr>
<td><strong>Sensitization</strong></td>
<td>There is no evidence of a skin-sensitizing potential. The statement has been derived from products of a similar structure or composition.</td>
</tr>
<tr>
<td><strong>Mutagenicity</strong></td>
<td>Mutagenicity tests revealed no genotoxic potential. The statement has been derived from products of a similar structure or composition.</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>The whole of the information available provides no indication of a carcinogenic effect.</td>
</tr>
<tr>
<td><strong>Toxicity after repeated exposure</strong></td>
<td>Repeated oral uptake of the substance did not cause substance-related effects. The statement has been derived from products of a similar structure or composition.</td>
</tr>
<tr>
<td><strong>Toxicity for reproduction</strong></td>
<td>The results of animal studies gave no indication of a fertility impairing effect. No adverse effects on embryonic or fetal development were observed. The statements have been derived from products of a similar structure or composition.</td>
</tr>
</tbody>
</table>
Environmental Information

Environment Safety Assessment

Note: The information in this chapter is intended to provide brief and general information of this substance’s environmental impact. The results in the table below refer to testing performed with the concentrated substance. The data contained in this section explain the relative effect of the concentrated substance on the environment, as defined by certain tests.

<table>
<thead>
<tr>
<th>Effect Assessment</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Toxicity</td>
<td>Acutely toxic for aquatic organisms. Harmful to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td>Readily biodegradable.</td>
</tr>
<tr>
<td>Bioaccumulation potential</td>
<td>Accumulation in organisms is not to be expected.</td>
</tr>
</tbody>
</table>

Physical/Chemical Properties

Phys/Chem Safety Assessment

- Alcohols, C_{12-18}, ethoxylated, sulfates, sodium salts is a solid, waxy smelter UV CB (substance of unknown or variable composition) which does not have flammable or explosive properties. The substance is very good water soluble.

Note: The results in the table below refer to testing performed with the concentrated substance. It is not intended to be comprehensive or to replace information found in the (M)SDS.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Melting / freezing point</td>
<td>-30 °C - 150 °C</td>
</tr>
<tr>
<td>Boiling point</td>
<td>206 °C at 1001 mbar</td>
</tr>
<tr>
<td>Flash point</td>
<td>174 °C at 1013 mbar</td>
</tr>
<tr>
<td>Flammability</td>
<td>Non flammable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Non explosive</td>
</tr>
<tr>
<td>Self-ignition temperature</td>
<td>265 °C</td>
</tr>
</tbody>
</table>

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Exposure Potential

- **Workplace exposure:** Exposure can occur either in an Alcohols, C\textsubscript{12-18}, ethoxylated, sulfates, sodium salts manufacturing facility or in the various industrial facilities that use alcohols, C12-18, ethoxylated, sulfates, sodium salts. Those working with Alcohols, C\textsubscript{12-18}, ethoxylated, sulfates, sodium salts could be exposed during maintenance, sampling, testing, handling or other procedures. Each facility should have a thorough training program for employees and appropriate work processes, as well as safety equipment in place to limit unnecessary exposure. The substance may cause skin and serious eye irritating effects; no systemic effects. For that reason: always use protective goggles and gloves during the handling and application activities and workers should follow the recommended safety measures in the extended Safety Data Sheet (eSDS).

- **Consumer exposure:** Alcohols, C\textsubscript{12-18}, ethoxylated, sulfates, sodium salts are used i.e. in cleaning agents and care products. The concentration of Alcohols, C\textsubscript{12-18}, ethoxylated, sulfates, sodium salts in consumer products is generally low; therefore Alcohols, C\textsubscript{12-18}, ethoxylated, sulfates, sodium salts does not pose any hazard to the consumer. However, carefully read and follow the instructions given on product labels for proper use.

- **Environmental exposure:** Alcohols, C\textsubscript{12-18}, ethoxylated, sulfates, sodium salts is readily biodegradable and will therefore be degraded within the wastewater treatment process and the environment. Though the substance is considered to be acutely toxic and chronically harmful to aquatic organisms, Alcohols, C\textsubscript{12-18}, ethoxylated, sulfates, sodium salts does not accumulate in the food chain. Conclusively, all identified uses are safe for the environment based on the scientific facts summarized above and when carried out in compliance with recommended risk management measures and applicable regulations.

Recommended Handling Measures

*The recommended safety measures generally apply in contact with the concentrated substance. It is NOT intended to replace the comprehensive guidance found in the (M)SDS, only supplement it. Please refer to the (M)SDS for specific safety and first aid measures.*

When using concentrated chemicals always make sure that there is adequate ventilation. Always use appropriate chemical resistant gloves to protect your hands and skin and always wear eye protection such as chemical goggles. Do not eat, drink, or smoke where chemicals are handled, processed, or stored. Wash hands and skin following contact. If the substance gets into your eyes, rinse eyes thoroughly for at least 15 minutes with tap water and seek medical
attention. For specific advice please consult the corresponding (Material) Safety Data Sheet of the substance.

All effluent releases that may include the substance must be directed to a (municipal) waste water treatment plant that removes the substance from the final releases to the receiving water.

**Regulatory Information / Classification and Labeling**

Under GHS substances are classified according to their physical, health, and environmental hazards. The hazards are communicated via specific labels and the (M)SDS. GHS attempts to standardize hazard communication so that the intended audience (workers, consumers, transport workers, and emergency responders) can better understand the hazards of the chemicals in use.

*Note: The hazard statements and symbols presented here refer to the hazard properties of the concentrated substance and are meant to provide a brief overview of the substance’s labeling. It is not intended to be comprehensive or to replace information found in the (M)SDS.*

**Labeling according to UN GHS**

UN GHS is the basis for country specific GHS labeling

![Signal word: Danger]

**Hazard statements:**
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H401: Toxic to aquatic life.
- H412: Harmful to aquatic life with long lasting effects

Date of Issue: March 2012
Additional information


Disclaimer

This Product Safety Summary is intended to provide a general overview of the chemical substance. It contains basic information and is not intended to provide emergency response information, medical information or treatment information. The summary cannot be relied on to provide in-depth safety and health information. In-depth safety and health information must be obtained from the Material Safety Data Sheet ((M)SDS) for the chemical substance.

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Contact

For further information on this substance or GPS safety summaries in general, please contact: info.gps@basf.com

Date of Issue: March 2012