GPS Safety Summary
Naphtha (petroleum), light steam-cracked arom.

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. This information must be obtained from the Material Safety Data Sheet ((M)SDS) for this chemical substance. Before handling or using Naphtha (petroleum), light steam-cracked arom. the relevant (M)SDS has to be consulted.

Chemical Identity

Name: Naphtha (petroleum), light steam-cracked arom.
CAS number: 68527-23-1
Molecular formula: Unspecified; Aromatic hydrocarbons, C7-C8,
Structure: Unspecified

IUPAC name: Naphtha (petroleum), light steam-cracked arom.

BASF brand names:
Toluene for dealkylation

Product Uses

Naphtha(petroleum), light steam-cracked arom. is a mixture of long-chain aromatic hydrocarbons produced by distillation of products from a steam-cracking process. It is used as an intermediate such as for the production of gasoline and hydrocarbons such as benzene as well as fuel and fuel additive.
Health Information

<table>
<thead>
<tr>
<th>Human Health Safety Assessment</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute Toxicity</strong></td>
<td>Of moderate toxicity after short-term inhalation and short-term skin contact. Possible narcotic effects (drowsiness or dizziness). The statements have been derived from the properties of the individual components.</td>
</tr>
<tr>
<td><strong>Aspiration Hazard</strong></td>
<td>May also damage the lung at swallowing.</td>
</tr>
<tr>
<td><strong>Irritation</strong></td>
<td>Skin contact causes irritation. May cause slight irritation to the eyes. The statements have been derived from the properties of the individual components.</td>
</tr>
<tr>
<td><strong>Sensitization</strong></td>
<td>Skin sensitizing effects were not observed in animal studies. The statement has been derived from the properties of the individual components.</td>
</tr>
<tr>
<td><strong>Mutagenicity</strong></td>
<td>May cause heritable genetic damage.</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>May cause cancer.</td>
</tr>
<tr>
<td><strong>Toxicity after repeated exposure</strong></td>
<td>Repeated exposure may affect certain organs. The statement has been derived from the properties of the individual components.</td>
</tr>
<tr>
<td><strong>Toxicity for reproduction</strong></td>
<td>The chemical structure does not suggest a specific alert for toxicity for reproduction. Indications of possible developmental toxicity/teratogenicity were seen in animal studies. The statements have been derived from the properties of the individual components.</td>
</tr>
</tbody>
</table>

Note: For more information on the health hazards of this substance and recommended protective equipment, please refer to the relevant (M)SDS.
Environmental Information

Environment Safety Assessment

<table>
<thead>
<tr>
<th>Effect Assessment</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Toxicity</td>
<td>Toxic to aquatic life. The substance has long lasting adverse effects to aquatic life.</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td>Not readily biodegradable.</td>
</tr>
<tr>
<td>Bioaccumulation potential</td>
<td>The product contains components with potential for bioaccumulation.</td>
</tr>
</tbody>
</table>

Note: For more information on the environmental hazards of this substance and recommended measures, please refer to the (M)SDS.

Physical/Chemical Properties

Phys/Chem Safety Assessment

- Naphtha (petroleum), light steam-cracked arom. is a clear, colorless to yellowish liquid of characteristic aromatic odor. It is highly flammable and non-explosive.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Melting / freezing point</td>
<td>&lt; -100 °C</td>
</tr>
<tr>
<td>Boiling point</td>
<td>111.7 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>7 °C</td>
</tr>
<tr>
<td>Flammability</td>
<td>Highly flammable.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Non-explosive.</td>
</tr>
<tr>
<td>Self-ignition temperature</td>
<td>502 °C</td>
</tr>
</tbody>
</table>

Note: For further information, see the relevant (M)SDS.
Exposure Potential

Naphtha (petroleum), light steam-cracked arom. is a chemical intermediate. Although BASF does not sell this substance for direct consumer use or directly to consumers, the public at large or consumers may be exposed to it from processing or use as a raw material for a variety of goods used by consumers or professionals. Based on the uses of this substance the public could be exposed through:

- **Workplace exposure:** Exposure via inhalation and/or dermal contact can occur either in a naphtha (petroleum), light steam-cracked arom. manufacturing facility or in the various industrial facilities that use naphtha (petroleum), light steam-cracked arom. Those working with the substance in industrial operations could be exposed during maintenance, sampling, testing, or other procedures. Each industrial facility should have a thorough training program for employees and appropriate work processes, as well as safety equipment in place to limit unnecessary exposure. Safety showers and eye-wash stations should be accessible nearby. Workers should follow the recommended safety measures in the extended Safety Data Sheet (eSDS).

- **Consumer exposure:** Naphtha (petroleum), light steam-cracked arom. contains more than 0.1% benzene. Benzene shall not be placed on the market as a constituent of other substances, or in mixtures, in concentrations ≥ 0.1% by weight with the exception of motor fuels which are the subject of a separate directive relating to the quality of petrol and diesel fuels (98/70/EC). Therefore, the supply of naphtha (petroleum), light steam-cracked arom. to the general population is prohibited.

- **Environmental exposure:** Naphtha (petroleum), light steam-cracked arom. contains bioaccumulative and poorly biodegradable components. It is classified as acutely as well as chronically toxic to aquatic life. Despite its properties and its hazard potential a risk for the environment can be considered negligible. This was demonstrated in an exposure assessment that resulted in releases that do not pose a risk to the environment. 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**

Before handling or using this substance, please consult the relevant (M)SDS.
It contains the required handling measures, emergency response information, medical information or treatment information.
Regulatory Information / Classification and Labeling

Regulations exist that govern manufacture, sales, transportation, use and disposal of Naphtha (petroleum), light steam-cracked arom. These regulations may vary by city, state, country or geographic region. Information on these issues may be found in the relevant (M)SDS.

Naphtha (petroleum), light steam-cracked arom. was registered under REACH Regulation in the EU.

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.

Labeling according to UN GHS
UN GHS is the basis for country specific GHS labeling

Signal word: Danger

Hazard statements:

H225: Highly flammable liquid and vapor
H304: May be fatal if swallowed and enters airways
H315: Causes skin irritation
H336: May cause drowsiness or dizziness
H340: May cause genetic defects
H350: May cause cancer
H361d: Suspected of damaging the unborn child
H373: May cause damage to organs through prolonged or repeated exposure
H401: Toxic to aquatic life
H411: Toxic to aquatic life with long lasting effects
Additional information

1. IFA GESTIS-database on hazardous substances
   http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp

2. Information on registered substance (ECHA)

3. BASF ProductFinder
   http://www.basf.com/group/corporate/de/Product-finder/index

Disclaimer

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Contact

For further information on this substance or GPS safety summaries in general, please contact:
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