1 Identification of the substance/preparation and the company/undertaking

Product name 1-Butyl-3-methylimidazolium hexafluorophosphate
Product code IL-0011
CAS 174501-64-5
REACH No. A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

Identified uses Laboratory chemicals, Manufacture of substances
Supplier IoLiTec Ionic Liquids Technologies GmbH
Salzstraße 184
D – 74076 Heilbronn
Germany
Telephone +49 (0)7131-89839-0
Fax +49 (0)7131-89839-109
Emergency telephone +49 (0) 176 84850874
Email msds@iolitec.de

2 Hazards Identification

2.1 Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)

Skin irritation (Category 2)
Eye irritation (Category 2)
Specific target organ toxicity - single exposure (Category 3)
Classification (67/548/EEC or 1999/45/EC)

Irritating to eyes, respiratory system and skin.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Pictogram

Signal word Warning

Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/spray.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements none

Labelling (67/548/EEC or 1999/45/EC)

Hazard symbol(s) ☒

R-phrase(s)

R36/37/38 Irritating to eyes, respiratory system and skin.
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S-phrase(s)
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Caution - substance not yet tested completely.

3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Contents</th>
<th>Health(Class)</th>
<th>Risk(R/No.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Butyl-3-methylimidazolium hexafluorophosphate</td>
<td>&gt;99%</td>
<td>Substance not yet fully tested!</td>
<td></td>
</tr>
</tbody>
</table>

4 FIRST AID MEASURES

General
Contaminated clothing should be removed and washed before being reused.

Inhalation
Move the exposed person to fresh air at once. If respiratory problems, provide artificial respiration/oxygen.

Ingestion
Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention immediately.

Skin
Wash the skin immediately with soap and water.

Eyes
Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.
### 5 FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Extinguishing media</th>
<th>Use: Water spray, fog or mist. Carbon dioxides (CO₂). Dry chemicals, sand, dolomite etc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special fire fighting procedures</td>
<td>Avoid water in straight hose stream, will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control.</td>
</tr>
<tr>
<td>Unusual fire &amp; explosion hazards</td>
<td>Fire causes formation of toxic gases.</td>
</tr>
<tr>
<td>Protective measures in fire</td>
<td>Wear self-contained breathing apparatus as combustion may produce hazardous fumes.</td>
</tr>
</tbody>
</table>

### 6 ACCIDENTAL RELEASE MEASURES

<table>
<thead>
<tr>
<th>Personal precautions during spill</th>
<th>Wear protective clothing and avoid inhalation of vapor, skin or eye contact.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precautions to protect environment</td>
<td>Avoid washing into water courses. Avoid contaminating public drains or water supply.</td>
</tr>
<tr>
<td>Spill cleanup methods</td>
<td>Avoid contact with skin or inhalation of spillage, dust or vapor, Avoid dust formation. Collect and reclaim or dispose in sealed containers in license waste. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.</td>
</tr>
</tbody>
</table>
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7 HANDLING AND STORAGE

Usage precautions
Keep away from heat, sparks and open flame.
Do not use in confined spaces without adequate ventilation and/or respirator.

Storage precautions
Store at moderate temperatures in dry, well ventilated area.

Storage criteria
Chemical storage.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protective equipment
Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection
Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
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9 PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Characteristic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless to yellow.</td>
</tr>
<tr>
<td>Odor/taste</td>
<td>No characteristic odor.</td>
</tr>
</tbody>
</table>

10 STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Characteristic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>No particular stability concerns.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Avoid contact to strong oxidizers and bases.</td>
</tr>
<tr>
<td>Hazardous</td>
<td></td>
</tr>
</tbody>
</table>

11 TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Characteristic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>no data available</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>no data available</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>no data available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</td>
</tr>
</tbody>
</table>
Reproductive toxicity
no data available

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
no data available

Aspiration hazard
no data available

Potential health effects
Inhalation May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion May be harmful if swallowed.
Skin May be harmful if absorbed through skin. Causes skin irritation.
Eyes Causes serious eye irritation.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information
RTECS: Not available

12 ECOLOGICAL INFORMATION

Environmental hazards
Avoid washing into water courses. Avoid contaminating public drains or water supply.

13 DISPOSAL CONSIDERATIONS

Disposal method
Contact specialist disposal companies. Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical.
14 TRANSPORT INFORMATION

General
Not classified as dangerous for transport purposes.

UN No.
0

Road transport notes
Not classified as dangerous for road transport.

Rail transport notes
Not classified as dangerous for rail transport.

Sea transport notes
Not classified as dangerous for sea transport.

Air transport notes
Not classified as dangerous for air transport.

15 REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
no data available

Chemical Safety Assessment
no data available

Country specific information

Germany
WGK: 3 (Self-Classification)
16 OTHER INFORMATION

DISCLAIMER
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