Safety Data Sheet  kumi2F25
Difluoromethyl phenyl sulfone
Date of issue: 18/01/2017   Version: 1.0

SECTION 1: Identification

1.1. Product identifiers

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Kumi2F25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance name</td>
<td>Difluoromethyl phenyl sulfone</td>
</tr>
<tr>
<td>Synonym</td>
<td>((Difluoromethyl)sulfonyl)benzene,PhSO2CF2H</td>
</tr>
<tr>
<td>Trademark</td>
<td>Fluora</td>
</tr>
<tr>
<td>CAS No</td>
<td>1535-65-5</td>
</tr>
<tr>
<td>Formula</td>
<td>C7H6F2O2S</td>
</tr>
<tr>
<td>Reach No.</td>
<td>Exempted from registration</td>
</tr>
</tbody>
</table>

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified Uses:
- Laboratory chemicals
- Manufacture of substances
- Scientific research and development

1.3. Details of the supplier of the safety data sheet

Kumidas SA
Avenue Louise 279,1050,Brussels, Belgium
T: +32(0) 2 699 82 36   F: +32(0) 2 699 82 36 40
E: info@kumidas.com   W: www.kumidas.com

1.4. Emergency telephone number

Emergency Phone# : +32(0)484 58 72 75

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008[EC-GHS/CLP]
- Skin irritation (Category 2), H315
- Eye irritation (Category 2), H319

Classification according to EU Directives 67/548/EEC or 1999/45/EC
- Irritating to eyes and skin.

2.2. Label elements

Labeling according to Regulation (EC) No 1272/2008

Signal word: Warning

Hazard statements:
- H315 – Causes skin irritation
- H319 – Causes serious eye irritation

Precautionary statements:
- 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

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.
Difluoromethyl phenyl sulphone

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SECTION 3: Composition/information on ingredients

3.1. Substances

<table>
<thead>
<tr>
<th>Component</th>
<th>Product identifier</th>
<th>Concentration</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Difluoromethyl phenyl sulphone (Main constituent)</td>
<td>(CAS No.) 1535-65-5</td>
<td>≤ 100%</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335</td>
</tr>
</tbody>
</table>

Hazardous ingredients according to Regulation (EC) No 1272/2008

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general advice : In case of accident or if you feel unwell, seek medical advice immediately (show this SDS to the doctor in attendance). Move the affected personnel away from the contaminated area.

First-aid measures if inhaled : Move person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Consult a physician.

First-aid measures in case of skin contact : Wash off with soap and plenty of water. Consult a physician.

First-aid measures in case of eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Contact a physician.

First-aid measures if swallowed : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Carbon oxides, Sulphur oxides, Hydrogen fluoride

5.3. Advice for firefighters

Firefighting instructions : In case of fire: Evacuate area.

Protection during firefighting : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters drains or public waters.

6.3. Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
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6.4. Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Store under inert gas.
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Contains no substances with occupational exposure limit value.

8.2. Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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) particulate 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).

Control of environmental exposure
Don't let product enter drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solidified mass or fragments</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless to Light yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>No data available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>24.7-25°C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>115-120°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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Relative density : 1.348 g/cm³  
Molecular Weight : 192.18 g/mol  
solubility : Soluble in chloroform and water  
Log Pow : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Viscosity : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available

9.2. Other safety information  
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity  
No additional information available

10.2. Chemical stability  
The product is stable at normal handling and recommended storage conditions.

10.3. Possibility of hazardous reactions  
No additional information available

10.4. Conditions to avoid  
No data available.

10.5. Incompatible materials  
Reducing agents, Oxidizing agents.

10.6. Hazardous decomposition products  
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides, Hydrogen fluoride.  
Other decomposition products - No data available.  
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1. Information on toxicological effects  
Acute toxicity : No data available  
Skin corrosion/irritation : No data available  
Serious eye damage/irritation : No data available  
Respiratory or skin sensitization : No data available  
Germ cell mutagenicity : No data available  
Carcinogenicity : 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.

Reproductive toxicity : No data available  
Specific target organ toxicity(single exposure) : No data available.  
Specific target organ toxicity (repeated exposure) : No data available  
Aspiration hazard : No data available  
Additional Information  
RETCS: Not available.

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

SECTION 12: Ecological information

12.1. Toxicity  
No additional information available

12.2. Persistence and degradability  
No additional information available
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12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

14.1. UN number
ADR/RID: -
IMDG: -
IATA: -

14.2. UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

14.3. Transport hazard class(es)
ADR/RID: -
IMDG: -
IATA: -

14.4. Packaging group
ADR/RID: -
IMDG: -
IATA: -

14.5. Environmental hazards
ADR/RID: no
IMDG: Marine pollutant: no
IATA: no

14.6. Special precautions for user
No data available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2. Chemical safety assessment
For this product, a chemical safety assessment was not carried out.

SECTION 16: Other information

16.1. Full text of H-statements referred to under sections 2 and 3.

<table>
<thead>
<tr>
<th>H315</th>
<th>Causes skin irritation</th>
</tr>
</thead>
<tbody>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
</tbody>
</table>

16.2. Further information
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It, therefore, does not represent any guarantee of the properties of the product. Kumidas shall not be held liable or any damage resulting from handling or from contact with the above product.

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