



SAFETY DATA SHEET

Ketaspire KT-820 SFP

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification

Product identifier

Product name Ketaspire KT-820 SFP

Recommended use of the chemical and restrictions on use

Uses advised against No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Supplier Kurt J Lesker Company

Manufacturer Kurt J Lesker Company
1925 Route 51
Jefferson Hills, PA 15025
+1 412-387-9200

Kurt J Lesker Company LTD
United Kingdom
Austin House
Sidney Little Road
Churchfields Industrial Estate
St Leonards on Sea, East Sussex, TN38 9PU, United Kingdom
Customer Service: +44 (0) 1424 458100
msds@lesker.com

Emergency telephone number

Emergency telephone Emergency Numbers
North America [USA, Canada, Mexico]: 1-866-519-4752
Mainland China: (+86) 4001 2001 74
Europe: {int'l call prefix}-1-760-476-3961
Asia Pacific: {int'l call prefix}-1-760-476-3960
Middle East & Africa: {int'l call prefix}-1-760-476-3959
South Korea: +080-880-0455
Philippines: (+63) 2 83953471

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Combustible Dust - USH01

Health hazards Not Classified

Environmental hazards Not Classified

Label elements

Signal word Warning

Hazard statements USH01 May form combustible dust concentrations in air.

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Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

| | |
|-----------------------------|-----------------|
| Polyetheretherketone | >=99% |
| CAS number: 29658-26-2 | |
| Classification | |
| Combustible Dust - USH01 | |

The full text for all hazard statements is displayed in Section 16.

Composition comments The exact percentage is withheld as a trade secret in accordance with 29 CFR 1910.1200.

4. First-aid measures

Description of first aid measures

| | |
|-----------------------------------|---|
| General information | If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel. |
| Inhalation | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. |
| Ingestion | Get medical attention if a large quantity has been ingested. |
| Skin Contact | Cool skin rapidly with cold water after contact with hot polymer. Do not peel polymer from the skin. Get medical attention if any discomfort continues. |
| Eye contact | Rinse cautiously with water for several minutes. Get medical attention if any discomfort continues. |
| Protection of first aiders | Use protective equipment appropriate for surrounding materials. |

Most important symptoms and effects, both acute and delayed

| | |
|----------------------------|---|
| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation | Mechanical irritation from the particulates generated by the product. Thermal decomposition can lead to release of hazardous gases and vapors |
| Ingestion | Low ingestion hazard |
| Skin contact | Mechanical irritation from the particulates generated by the product. |
| Eye contact | Mechanical irritation from the particulates generated by the product. |

Indication of immediate medical attention and special treatment needed

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|-----------------------------|--------------------------------|
| Notes for the doctor | Treat symptomatically. |
| Specific treatments | No special treatment required. |

5. Fire-fighting measures

Extinguishing media

| | |
|---------------------------------------|--|
| Suitable extinguishing media | Use fire-extinguishing media suitable for the surrounding fire. Carbon dioxide (CO ₂). Water. Water spray. Foam. Powder. |
| Unsuitable extinguishing media | None known. |

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Special hazards arising from the substance or mixture

Specific hazards Combustible Material In a fire, the polymer melts, producing droplets which may propagate fire. Once started, a fire will tend to self extinguish (see section 9) Harmful gases or vapors.

Advice for firefighters

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions No specific recommendations. For personal protection, see Section 8.

For non-emergency personnel Refer to protective measures listed in sections 7 and 8.

For emergency responders Avoid dust formation. Sweep up to prevent slipping hazardous. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. In case of accidental release or spill, immediately notify the appropriate authorities if required by Federal, State/Provincial and local laws and regulations.

Methods and material for containment and cleaning up

Methods for cleaning up Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Dispose of contents/container in accordance with national regulations. Avoid dust formation.

Reference to other sections Refer to protective measures listed in sections 7 and 8.

7. Handling and storage

Precautions for safe handling

Usage precautions Ground container and transfer equipment to eliminate sparks from static electricity. Static electricity and formation of sparks must be prevented. Use only equipment and materials which are compatible with the product. To avoid thermal decomposition, do not overheat.

Advice on general occupational hygiene Wash at the end of each work shift and before eating, smoking and using the toilet. Good personal hygiene procedures should be implemented.

Conditions for safe storage, including any incompatibilities

Storage precautions No specific recommendations. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. To avoid thermal decomposition, do not overheat. Avoid dust formation. Refer to protective measures listed in sections 7 and 8.

Storage class Unspecified storage.

Specific end uses(s)

Specific end use(s) No data available.

8. Exposure controls/Personal protection

Control parameters

Occupational exposure limits

Contains no substances with occupational exposure limit values.

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Exposure controls

| | |
|---|---|
| Appropriate engineering controls | Provide adequate general and local exhaust ventilation. Refer to protective measures listed in sections 7 and 8. |
| Eye/face protection | Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Wear tight-fitting, dust-resistant, chemical splash goggles if airborne dust is generated. |
| Hand protection | When handling hot material, use heat resistant gloves. |
| Other skin and body protection | Wear appropriate clothing to prevent any possibility of skin contact. |
| Hygiene measures | No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product. |
| Respiratory protection | Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Use only respiratory protection that conforms to international/national standards. Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. |

9. Physical and chemical properties

Information on basic physical and chemical properties

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|---|--|
| Appearance | Solid. Powder. |
| Color | White/off-white. |
| Odor | Odorless. |
| Odor threshold | Not available. No data available. |
| pH | Not applicable. |
| Melting point | 340°C/644°F |
| Initial boiling point and range | Not applicable. |
| Flash point | Not applicable. |
| Evaporation rate | No data available. |
| Flammability (solid, gas) | May form combustible dust concentrations in air. The product is not flammable. |
| Upper/lower flammability or explosive limits | Not available. |
| Other flammability | No data available. |
| Vapor pressure | Not applicable. |
| Vapor density | Not applicable. |
| Relative density | No data available. |
| Bulk density | No data available. |
| Solubility(ies) | Water Solubility: negligible |
| Partition coefficient | No data available. |
| Auto-ignition temperature | No data available. |
| Decomposition Temperature | 430°C/>806°F extended period of exposure (ca. 1 Hour). |

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| | |
|--------------------------------------|--------------------|
| Viscosity | No data available. |
| Particle size | No data available. |
| Molecular weight | Not available. |
| Minimum ignition energy | 30-100mJ |
| Dust Explosion Constant | St1 |
| Dust deflagration index (Kst) | 153 m.bar/s |

10. Stability and reactivity

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| Reactivity | There are no known reactivity hazards associated with this product. |
| Stability | Stable at normal ambient temperatures and when used as recommended. |
| Possibility of hazardous reactions | No potentially hazardous reactions known. polymerization: Hazardous polymerization does not occur. |
| Conditions to avoid | Avoid heat, flames and other sources of ignition. To avoid thermal decomposition, do not overheat. Avoid dust formation. The normal temperature for processing this resin exceeds the decomposition and/or ignition temperature of some other polymeric resins, such as polyacetal, polyvinyl chloride (PVC), polypropylene, etc. If PVC or any other resin with a decomposition temperature below 371°C / 700°F is molded or handled in your equipment, these materials can rapidly decompose and/or react with this resin at the temperatures used to process this resin. Inadvertent contamination of this resin with these materials from the material handling system or other equipment can result in a rapid, possibly violent release of decomposition fumes, when the contaminated material is brought to processing temperature. To avoid, thoroughly clean molding and other processing equipment prior to changeover and prevent cross contamination of material handling systems. |
| Materials to avoid | No specific material or group of materials is likely to react with the product to produce a hazardous situation. Polymeric resins |
| Hazardous decomposition products | Carbon monoxide (CO). Hydrocarbons. Hydrogen fluoride (HF). Oxides of sulfur. The release of other hazardous decomposition products is possible. |

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) No data available.

Acute toxicity - dermal

Notes (dermal LD₅₀) No data available.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No data available.

Skin corrosion/irritation

Skin corrosion/irritation No data available.

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Serious eye damage/irritation

Serious eye damage/irritation No data available.

Respiratory sensitization

Respiratory sensitization No data available.

Skin sensitization

Skin sensitization No data available.

Germ cell mutagenicity

Genotoxicity - in vitro No data available.

Genotoxicity - in vivo No data available.

Carcinogenicity

Carcinogenicity No data available.

IARC carcinogenicity Not listed.

NTP carcinogenicity Not listed.

OSHA Carcinogenicity Not listed.

Reproductive toxicity

Reproductive toxicity - fertility No data available.

Reproductive toxicity - development Based on available data the classification criteria are not met. No data available.

Specific target organ toxicity - single exposure

STOT - single exposure No data available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No data available.

Aspiration hazard

Aspiration hazard No data available.

General information

Because the components are encapsulated in the resin and may not be bioavailable in the body, they may not exert the above mentioned health effects. Description of possible hazardous to health effects is based on experience and/or toxicology characteristics of several ingredients.

12. Ecological information

Toxicity Based on available data the classification criteria are not met.

Acute aquatic toxicity

Acute toxicity - fish No data available.

Acute toxicity - aquatic invertebrates No data available.

Acute toxicity - aquatic plants No data available.

Acute toxicity - microorganisms No data available.

Persistence and degradability

Persistence and degradability The degradability of the product is not known.

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| | |
|--|---------------------------------------|
| Biodegradation | No data available. |
| <u>Bioaccumulative potential</u> | |
| Bio-Accumulative Potential | No data available on bioaccumulation. |
| Partition coefficient | No data available. |
| <u>Mobility in soil</u> | |
| Mobility | No data available. |
| Adsorption/desorption coefficient | No data available. |
| <u>Other adverse effects</u> | |
| Other adverse effects | No data available. |

13. Disposal considerations

Waste treatment methods

| | |
|----------------------------|---|
| General information | The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. |
| Disposal methods | Dispose of contents/container in accordance with national regulations. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Do not empty into drains. Can be landfilled or incinerated, when in compliance with local regulations Incineration or landfill should only be considered when recycling is not feasible. |

14. Transport information

| | |
|---|--|
| General | The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT). |
| <u>UN Number</u> | |
| UN No. (International) | Not applicable. |
| <u>UN proper shipping name</u> | |
| Proper shipping name (International) | Not applicable. |
| <u>Transport hazard class(es)</u> | |
| Transport Labels (International) | No transport warning sign required. |
| <u>Packing group</u> | |
| Packing group (International) | Not applicable. |
| <u>Environmental hazards</u> | |
| Environmentally Hazardous Substance | No. |
| <u>Special precautions for user</u> | |
| | Not applicable. |

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

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed or exempt.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed or exempt.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

SARA 313 Emission Reporting

None of the ingredients are listed or exempt.

CAA Accidental Release Prevention

None of the ingredients are listed or exempt.

FDA - Essential Chemical

None of the ingredients are listed or exempt.

FDA - Precursor Chemical

None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories

None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed or exempt.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances

None of the ingredients are listed or exempt.

Massachusetts "Right To Know" List

None of the ingredients are listed or exempt.

Rhode Island "Right To Know" List

None of the ingredients are listed or exempt.

Label Prop 65 data

Minnesota "Right To Know" List

None of the ingredients are listed or exempt.

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Pennsylvania "Right To Know" List

None of the ingredients are listed or exempt.

New Jersey "Right To Know" List

None of the ingredients are listed or exempt.

Inventories

Canada - DSL/NDSL

All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

Japan - ENCS

All the ingredients are listed or exempt.

Korea - KECI

All the ingredients are listed or exempt.

China - IECSC

All the ingredients are listed or exempt.

Philippines - PICCS

Some of the ingredients are listed or exempt.

New Zealand - NZIOC

All the ingredients are listed or exempt.

Taiwan - TCSI

All the ingredients are listed or exempt.

16. Other information

| | |
|----------------------------------|--|
| Training advice | Only trained personnel should use this material. |
| Revision comments | This is the first issue. |
| Issued by | HS&E Manager. |
| Revision date | 8/15/2022 |
| Revision | 2 |
| Supersedes date | 6/16/2022 |
| SDS No. | 5972 |
| Hazard statements in full | USH01 May form combustible dust concentrations in air. |
| End of SDS | |

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