



SAFETY DATA SHEET

Ketaspire KT-820FP

1. Identification

Product identifier

Product name Ketaspire KT-820FP

Product number KT-820FP-1KG, KT-820FP-12.5KG

CAS number 29658-26-2

Recommended use of the chemical and restrictions on use

Application Plastics Industry

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
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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 Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Label elements

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Hazard statements NC Not Classified

Other hazards

This product does not contain any substances classified as PBT or vPvB. Based on available knowledge of this material, it has been determined to be non-hazardous and will not pose a risk to persons or the environment in its provided form. However, any cutting, welding, melting, grinding, or use for deposition will produce dust, fume, or particulates containing component elements of this material. Exposure to these components may present significant health hazards. Note: Fine particulate may be a combustible dust which, when dispersed in air, may present an explosion hazard.

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 at once. Get medical attention if any discomfort continues.
Ingestion	Never give anything by mouth to an unconscious person. 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.
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	No specific symptoms known. May cause discomfort if swallowed.
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

Notes for the doctor	Treat symptomatically.
Specific treatments	No data available.

5. Fire-fighting measures

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Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂). Foam. Water. Water spray. Powder.

Unsuitable extinguishing media None known.

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.

Hazardous combustion products 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

Protective actions during firefighting Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.

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 Sweep up to prevent slipping hazardous. Avoid dust formation. 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 Reuse or recycle products wherever possible. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

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

7. Handling and storage

Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Static electricity and formation of sparks must be prevented. Ground container and transfer equipment to eliminate sparks from static electricity. To avoid thermal decomposition, do not overheat. Use only equipment and materials which are compatible with the product.

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.

Dust Explosion Class

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Conditions for safe storage, including any incompatibilities

Storage precautions	No specific recommendations. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. To avoid thermal decomposition, do not overheat. Avoid dust formation. Refer to protective measures listed in sections 7 and 8.
Storage class	Unspecified storage.
<u>Specific end uses(s)</u>	
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.

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	Tight-fitting safety glasses. 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	Wash at the end of each work shift and before eating, smoking and using the toilet. Good personal hygiene procedures should be implemented. 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.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Solid. Powder.
Color	White/off-white.
Odor	Odorless.
Odor threshold	Not available.
pH	Not applicable.
Melting point	340°C/644°F
Initial boiling point and range	Not available.
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.

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Other flammability	No data available.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	No data available.
Bulk density	Not available.
Solubility(ies)	Water Solubility: negligible
Partition coefficient	No data available.
Auto-ignition temperature	Not available.
Decomposition Temperature	extended period of exposure (ca. 1 Hour). 430°C/> 806°F
Viscosity	No data available.
Particle size	No data available.
Minimum ignition energy	30-100mJ
Dust Explosion Constant	St1
Dust deflagration index (Kst)	153 m.bar/s

10. Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of hazardous reactions	No potentially hazardous reactions known. polymerization: Hazardous polymerization does not occur.
Conditions to avoid	Heat, sparks, flames. To avoid thermal decomposition, do not overheat. 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	Polymeric resins
Hazardous decomposition products	Carbon monoxide (CO). Sulfur oxides Carbon monoxide (CO). Hydrocarbons. Hydrogen fluoride (HF). The release of other hazardous decomposition products is possible.

11. Toxicological information

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Information on toxicological effects

Toxicological effects	Not regarded as a health hazard under current legislation.
<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	No data available.
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	No data available.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	No data available.
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	No data available.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	No data available.
<u>Respiratory sensitization</u>	
Respiratory sensitization	No data available.
<u>Skin sensitization</u>	
Skin sensitization	No data available.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	No data available.
Genotoxicity - in vivo	No data available.
<u>Carcinogenicity</u>	
Carcinogenicity	No data available. This product does not contain any ingredient designated as probable or suspected human carcinogen by: NTP, IARC, OSHA
IARC carcinogenicity	None of the ingredients are listed or exempt.
NTP carcinogenicity	Not listed.
OSHA Carcinogenicity	Not listed.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	No data available.
Reproductive toxicity - development	No data available.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	No data available.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	No data available.
<u>Aspiration hazard</u>	
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.

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Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known. May cause discomfort if swallowed.
Skin Contact	Prolonged contact may cause dryness of the skin.
Eye contact	No specific symptoms known. May be slightly irritating to eyes.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target Organs	No specific target organs known.

12. Ecological information

Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
Toxicity	Based on available data the classification criteria are not met.
<u>Acute aquatic toxicity</u>	
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.
<u>Persistence and degradability</u>	
Persistence and degradability	No data available.
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

Disposal methods	Dispose of contents/container in accordance with national regulations. Can be landfilled or incinerated, when in compliance with local regulations Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations.
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14. Transport information

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General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
Road transport notes	Not regulated.
Rail transport notes	Not regulated.
Sea transport notes	Not regulated.
Air transport notes	Not regulated.
DOT transport notes	Not regulated.
<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.	
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.

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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.

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

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

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.

Australia - AICS

All the ingredients are listed or exempt.

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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

Revision date	9/15/2022
Revision	1
SDS No.	6082
Hazard statements in full	USH01 May form combustible dust concentrations in air.
End of SDS	