



SAFETY DATA SHEET

Ketaspire KT-880 FP

1. Identification

Product identifier

Product name Ketaspire KT-880 FP

Product number KT-880FP-12.5KG, KT-880FP-1KG

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
1925 Route 51
Jefferson Hills, PA 15025
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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

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Hazard statements USH01 May form combustible dust concentrations in air.

Other hazards

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

3. Composition/information on ingredients

Mixtures

Polyetheretherketone	>=99%
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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

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 (CO₂). Water. Water spray. Foam. Powder.

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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.

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.

Dust Explosion Class St1

Conditions for safe storage, including any incompatibilities

Storage precautions 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

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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	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

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	No data available.
Relative density	No data available.
Bulk density	No data available.
Solubility(ies)	Water Solubility: negligible
Partition coefficient	No data available.

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Auto-ignition temperature	No data available.
Decomposition Temperature	430°C/>806°F extended period of exposure (ca. 1 Hour).
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

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	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.

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Skin corrosion/irritation

Skin corrosion/irritation No data available.

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. This product does not contain any ingredient designated as probable or suspected human carcinogen by: NTP, IARC, OSHA

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.

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Acute toxicity - microorganisms No data available.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage No data available.

Chronic toxicity - aquatic invertebrates No data available.

Persistence and degradability

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

Phototransformation No data available.

Biodegradation No data available.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient No data available.

Mobility in soil

Mobility No data available.

Adsorption/desorption coefficient No data available.

Other adverse effects

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. Can be landfilled or incinerated, when in compliance with local regulations Incineration or landfill should only be considered when recycling is not feasible. 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.

14. Transport information

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.

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UN Number

UN No. (International) Not applicable.

UN No. (DOT) Not applicable.

UN proper shipping name

Proper shipping name (International) Not applicable.

Proper shipping name (DOT) Not applicable.

Transport hazard class(es)

Transport Labels (International) No transport warning sign required.

DOT transport labels
No transport warning sign required.

Packing group

Packing group (International) Not applicable.

DOT packing group Not applicable.

Environmental hazards

Environmentally Hazardous Substance
No.

Special precautions for user

Not applicable.

DOT reportable quantity Not applicable.

DOT TIH Zone 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.

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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.

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.

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Australia - AICS

All 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

Abbreviations and acronyms used in the safety data sheet	<p>IARC: International agency for research on cancer. GHS: Globally harmonized system. IATA: International air transport association. PBT: Persistent, bioaccumulative and toxic substance. ATE: Acute toxicity estimate. CAS: Chemical abstracts service. LD₅₀: Lethal dose to 50% of a test population (median lethal dose). LC₅₀: Lethal concentration to 50 % of a test population. EC₅₀: 50% of maximal effective concentration. vPvB: Very persistent and very bioaccumulative. ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration NTP: National Toxicology Program NIOSH: National Institute for Occupational Safety and Health STOT: Specific Target Organ Toxicity Not all acronyms listed above are referenced in the SDS.</p>
Training advice	Only trained personnel should use this material.
Revision comments	This is the first issue.
Issued by	HS&E Manager.
Revision date	9/15/2022
Revision	5
Supersedes date	9/15/2022
SDS No.	6046
Hazard statements in full	USH01 May form combustible dust concentrations in air.

End of SDS

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.