SAFETY DATA SHEET
Ketaspire KT-820 UFP

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

1. Identification

Product identifier

Product name Ketaspire KT-820 UFP

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
+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

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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 CAS number: 29658-26-2	**>=99%**
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 no 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

Extinguishing media

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

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

Conditions for safe storage, including any incompatibilities

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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.

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.

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	Not applicable. 340°C/644°F
Initial boiling point and range	Not available.
Flash point	Not applicable.
Evaporation rate	No data available.
Flammability (solid, gas)	Not applicable. 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.

Acute toxicity - oral

Notes (oral LD_{50}) No data available.

Acute toxicity - dermal

Notes (dermal LD_{50}) No data available.

Acute toxicity - inhalation

Notes (inhalation LC_{50}) No data available.

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 None of the ingredients are listed or exempt.

NTP carcinogenicity Not listed.

OSHA Carcinogenicity Not listed.

Reproductive toxicity

Reproductive toxicity - fertility No data available.

Reproductive toxicity - development 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.

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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.

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	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

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 wary in different locations.

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).

UN Number

UN No. (International) Not applicable.

UN proper shipping name

Proper shipping name (International) Not applicable.

Transport hazard class(es)

Transport Labels (International) No transport warning sign required.

Packing group

Packing group (International) Not applicable.

Environmental hazards

Environmentally Hazardous Substance
No.

Special precautions for user

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.

FDA - Precursor Chemical
None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories
None of the ingredients are listed or exempt.

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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

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.

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.

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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

ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical abstracts service.
ATE: Acute toxicity estimate.
IATA: International air transport association.
IARC: International agency for research on cancer.
GHS: Globally harmonized system.
NIOSH: National Institute for Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
STOT: Specific Target Organ Toxicity
PBT: Persistent, bioaccumulative and toxic substance.
vPvB: Very persistent and very bioaccumulative.
LC_{50}: Lethal concentration to 50 % of a test population.
LD_{50}: Lethal dose to 50% of a test population (median lethal dose).
Not all acronyms listed above are referenced in the SDS.

Training advice Only trained personnel should use this material.

Revision comments This is the first issue.

Issued by HS&E Manager.

Revision date 8/16/2022

Revision 3

Supersedes date 8/15/2022

SDS No. 5987

Hazard statements in full USH01 May form combustible dust concentrations in air.

End of SDS