

MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 REACH

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1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

Trademark: Arichem KSS-FR

Product Code: Arichem KSS-FR

Product Description: Potassium Diphenylsulfone Sulfonate [CAS 63316-43-8]
CAS name:
Potassium 3-(phenylsulfonyl)benzenesulfonate

Product Type: Commercial Product

Recommended use: May be used as a flame retardant in polycarbonate resin formulations

Company: Arichem LLC
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Ariton, AL 36311
USA

Manufacturer: Arichem LLC
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2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

White crystalline powder
 No characteristic odor
 Spilled material may create slipping hazard
 Can burn in a fire producing toxic smoke
 Decomposition products are toxic.
 No other significant fire, explosion or health hazard.

Skin Contact:	May cause minor skin irritation
Eye Contact:	Powder particles may be irritating to the eyes
Inhalation:	Powder particles may be irritating – avoid inhalation
Ingestion:	Effects unknown. If ingested, get trained medical help.
Other Information:	For skin or eye contact, flush affected areas with water continuing for 20 minutes

3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS/EC/Index/REACH No	Concentration	% b-w
Potassium 3-(phenylsulphonyl)benzenesulphonate 63316-43-8 264-097-3	>60%	% b-w
Dipotassium 3,3'-sulphonylbis(benzenesulphonate) 63316-33-6 264-096-8	<28%	% b-w

This product does not contain substances to be mentioned according to EU Regulation No. 1907/2006 (REACH), annex II.
 Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 99/45/EC unless indicated.

4. FIRST AID MEASURES

If inhaled:	Move to fresh air in the event of inhalation of concentrated dust. Give artificial respiration if not breathing; Give oxygen if breathing is difficult. Call for trained medical help.
On skin contact:	Flush contacted skin areas with water for 20 minutes
On eye contact:	Flush eyes with water for 20 minutes
On ingestion:	Effects unknown. If ingested, get trained medical help.
Precautions:	In all cases, get trained medical help immediately.

5. FIRE FIGHTING MEASURES

Autoignition Temperature:	Not established
Explosive Limits:	Not a significant explosion hazard.
Upper	Not established
Lower	Not established
Suitable Extinguishing Media:	Use dry chemical, CO ₂ , water fog, or regular foam.
Unsuitable Extinguishing Media:	Solid water stream not recommended.
Hazardous Decomposition Products:	Vapors containing carbon dioxide, carbon monoxide, Oxides of NO _x and SO _x type
Special Protective Equipment for Firefighters:	Self-contained breathing apparatus (NEN-EN137) and full protective fire fighting clothing
Specific Hazards:	Flash Point: 950 °F (496 °C) Vapors are toxic

6. ACCIDENTAL RELEASE MEASURES

Clean up:	Collect for recycle into suitable containers for disposal.
Personal precautions:	See Section 8
Environmental Precautions:	Do not release into waterways or the environment

7. HANDLING AND STORAGE

Handling:

Handle in a well-ventilated area. If adequate ventilation is not possible, use a NIOSH/MSHA or other approved dust/mist respirator or airline supplied respirator depending on concentrations. See section 8. Eye protection. Rubber gloves.

Storage:

Store in closed container in cool, well ventilated location. Keep away from combustibles and other reactive materials. See Section 10. Rotate stock. Do not puncture containers.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits:

No information unless noted below

Engineering Measures to Reduce Exposure

PEL for nuisance dust is 15 mg/m³ for total dust and 5 mg/m³ for the respirable fraction. Ventilate use area to maintain dust concentrations below the PEL. If such ventilation fails or is not available, use NIOSH/MSHA dust/mist respirator (or equivalent). Use good industrial safety practices.

Hand Protection:

Rubber gloves (NEN-EN 374)

Eye Protection:

Safety glasses with side shields (NEN-EN 165-166).

Respiratory Protection:

Self contained breathing apparatus in case of abnormal conditions and suitable respiratory equipment in case of insufficient ventilation (NEN-EN 149)

Body Protection:

Long sleeved clothing (NEN-EN 340-369-465)

Hygiene Measures:

When using, avoid eating, drinking, smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Solid

Appearance:

Crystalline Powder

Color:

White

Odor:

None

Melting Point/Range:	Not established
Autoignition Temperature:	Not established
Vapor Pressure:	Not established
Water Solubility:	25 g/100 ml at 77 °F (25 °C)
Evaporation Rate:	Not established
Specific Gravity:	>1 (water = 1)
VOC content (%)	Negligible
Explosive Limits:	Not a significant explosion hazard.
Upper	Not established
Lower	Not established

10. STABILITY AND REACTIVITY

Stability:	Stable under ambient conditions. Hazardous polymerization does not occur.
Conditions to avoid:	Avoid elevated temperatures (950 °F or 496 °C) Do not use without adequate ventilation.
Hazardous Decomposition Products:	Decomposition vapors include SO _x type

11. TOXICOLOGICAL INFORMATION

LD50/oral/rat:	Not established
LD50/dermal/rabbit:	Not established
Subchronic toxicity:	No information available
Primary Irritation:	Skin
IARC:	Not listed
OSHA:	Not listed
NTP:	Not listed
Remarks:	Toxicological data has been taken from products of similar composition
Special Studies:	None

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects:	Do not flush into surface water or sanitary sewer system
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Ecotoxicity – Invertebrate Data: Ecological damages are not known or expected under normal use

Germany VCI (WGK): 0

13. DISPOSAL CONSIDERATIONS

Waste from residues/ unused products: Recycle if possible. Dispose in accordance with local regulations.

EWC waste disposal number: Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with regional waste company.

14. TRANSPORT INFORMATION

Transport Classification: Not regulated as hazardous for shipment, unless noted below, under current transportation regulations.

ADR/RID/AND	Not regulated
IMDG	Not regulated
ICAO-TI/IATA	Not regulated
USA DOT	Not regulated
USA DOT/IMO	Not regulated

15. REGULATORY INFORMATION

EU Regulations: Annex I, part 1 + 2: not mentioned.
 Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances
 With regard to possible decomposition products, see Section 10.

National Regulations
TSCA (USA) Listed*
EINECS (Europe) Listed

REACH Information Pre-registered

RoHS EU Directive 2002/95/EC: In compliance.
 Does not intentionally contain banned chemicals.

* "Listed" means all chemical components are on respective inventory list and/or a qualifying exemption exists for one or more components. "Not listed" indicates that one or more components is restricted into that country or region.

16. OTHER INFORMATION

Arichem KSS-FR is a trademark of Arichem LLC.

MSDS Scope: This document conforms to Regulation EC No 1907/2006 REACH
This document is applicable to other countries and regions.

Prepared by: Arichem LLC

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