OTTO CHEMIE PVT LTD

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MATERIAL SAFETY DATA SHEET

1.Identification 1.1GHS Product identifier 4,4-Dihydroxy diphenyl sulphone, 98% Code D 5095
2.Hazard identification 2.1Classification of the substance or mixture Not classified. 2.2GHS label elements, including precautionary statements Pictogram(s) No symbol. Signal word No signal word. Hazard statement(s) none Precautionary statement(s) Prevention none Response none Storage none 2.3Other hazards which do not result in classification none 3.Composition/information or ingredients
3.1Substances
Chemical name Common names and synonyms CAS number EC number Concentration 4,4'-sulfonyldiphenol 4,4'-sulfonyldiphenol 80-09-1 none 100%
 4. First-aid measures 4. 1Description of necessary first-aid measures General advice Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. 4.2Most important symptoms/effects, acute and delayed no data available 4.3Indication of immediate medical attention and special treatment needed, if necessary /SRP:/ Immediate first aid: Ensure that adequate decontamination has been carried out. If patient is not breathing, start artificial respiration, preferably with a demand valve resuscitator, bag-valve-mask device, or pocket mask, as trained. Perform CPR if necessary. Immediately flush contaminated eyes with gently flowing water. Do not induce vomiting. If vomiting occurs, lean patient forward or place on the left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep patient quiet and maintain normal body temperature. Obtain medical attention. /Poisons A and B/
5.Fire-fighting measures 5.1Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. 5.2Specific hazards arising from the chemical no data available 5.3Special protective actions for fire-fighters Wear self-contained breathing apparatus for firefighting if necessary.

6.Accidental release measures

6.1Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2Environmental precautions

4

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. 6.3Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7.Handling and storage

7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2. 7.2Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8.Exposure controls/personal protection

8.1Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. 8.3Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Respiratory protection

Wear dust mask when handling large quantities. Thermal hazards

no data available

9.Physical and chemical properties

9.Physical and chemical pro	perces
Physical state	light yellow crystalline powder
Colour	White, crystalline powder
Odour	no data available
Melting point/ freezing point	247\u00b0C(lit.)
Boiling point or initial boiling	70\u00b0C/26mmHg(lit.)
point and boiling range	
Flammability	no data available
Lower and upper explosion	no data available
limit / flammability limit 🤍	
Flash point	103\u00b0C(lit.)
Auto-ignition temperature	no data available
Decomposition temperature	no data available
рН	no data available
Kinematic viscosity 📄 🚬	no data available
Solubility	In water:1.1 g/L (20 \u00baC)
Partition coefficient n-	log Kow = 1.65 (est)
octanol/water (log value)	
Vapour pressure	4.7X10-10 mm Hg at 25\u00b0C (est)
Density and/or relative	1.432 g/cm3
density	-
Relative vapour density	no data available
Particle characteristics	no data available
10.Stability and reactivity	
10.1Reactivity	
no data available	
10.2Chemical stability	
Stable under recommended	storage conditions.
10.3Possibility of hazardous	reactions
no data available	
10.4Conditions to avoid	
no data available	
10.5Incompatible materials	
no data available	
10.6Hazardous decompositi	on products

10.6Hazardous decomposition products

When heated to decomposition it emits toxic fumes of Sulfur oxides.

11.Toxicological information Acute toxicity Oral: LD50 Rat oral 4556 mg/kg Inhalation: no data available Dermal: no data available Skin corrosion/irritation no data available Serious eye damage/irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity no data available Reproductive toxicity no data available STOT-single exposure no data available STOT-repeated exposure no data available Aspiration hazard no data available 12. Ecological information 12.1Toxicity Toxicity to fish: no data available Toxicity to daphnia and other aquatic invertebrates: no data available Toxicity to algae: no data available Toxicity to microorganisms: no data available 12.2Persistence and degradability AEROBIC: Bisphenol S is reported to be non-biodegradable in the Japanese MITI test(1). In 22-day aerobic river die-away tests using several river water samples in 24 microcosms, bisphenol S showed no degradation in all 24 microcosms(2). No biodegradation of bisphenol S was observed in laboratory tests using seawater(3). 12.3Bioaccumulative potential An estimated BCF of 6 was calculated in fish for bisphenol S(SRC), using an estimated log Kow of 1.65(1) and a regression-derived equation(1). According to a classification scheme(2), this BCF suggests the potential for bioconcentration in aquatic organisms is low(SRC). Bisphenol S is reported to have low bioconcentration(3). 12.4Mobility in soil Using an estimated log Kow of 1.65(1) and a regression-derived equation(1), the Koc of bisphenol S can be estimated to be 160(SRC). According to a classification scheme(2), this estimated Koc value suggests that bisphenol S is expected to have moderate mobility in soil. The estimated pKa of bisphenol S is 8.2(3), indicating that this compound will exist partially in anion form in the environment and anions generally do not adsorb more strongly to soils containing organic carbon and clay than their neutral counterparts(4). 12.50ther adverse effects no data available 13.Disposal considerations 13.1Disposal methods Product The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems. Contaminated packaging Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials. 14.Transport information 14.1UN Number ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods. 14.2UN Proper Shipping Name ADR/RID: unknown IMDG: unknown IATA: unknown 14.3Transport hazard class(es) ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods. 14.4Packing group, if applicable

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

14.5Environmental hazards ADR/RID: no IMDG: no IATA: no 14.6Special precautions for user no data available 14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code no data available

15.Regulatory information

15.1Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number	
4,4'-sulfonyldiphenol	4,4'-sulfonyldiphenol	80-09-1	none	
European Inventory of Exi	Listed.			
EC Inventory				
United States Toxic Subst	Listed.			
China Catalog of Hazardous chemicals 2015				
New Zealand Inventory of Chemicals (NZIoC)				
Philippines Inventory of Chemicals and Chemical Substances (PICCS)				
Vietnam National Chemical Inventory				
Chinese Chemical Invento	Listed.			

Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

