


<b>MSDS</b>	<b>Material Safety Data Sheet</b>
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## **5-SULFOSALICYLIC ACID DIHYDRATE**

## 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

PRODUCT NAME	5-Sulfosalicylic acid dihydrate
RECOMMENDED USE & RESTRICTIONS ON USE	Research use only
INFORMATION OF MANUFACTURER/IMPORTER/SUPPLIER	
COMPANY	Eurolab <sup>®</sup>
ADDRESS	54-58 High Street Edgware, Middlesex, HA8 7EJ, UK
EMERGENCY PHONE	
E-MAIL ADDRESS	

## 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION	Serious eye damage/Eye irritation : Category 2	
LABEL ELEMENTS	PICTOGRAM	
	HAZARD SYMBOL	WARNING
	HAZARD STATEMENTS	Causes serious eye irritation.
	PRECAUTIONARY STATEMENTS	Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
OTHER HAZARDS	Health	3
	Fire	0

(NFPA)	Reactivity	0
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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY	SYNONYMS	CAS NUMBER	ASSAY
5-Sulfosalicylic acid	2-Hydroxy-sulfobenzoic Acid	5965-83-3	Above 99%(EP)

### 4. FIRST AID MEASURES

GENERAL ADVICE	Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.
IN CASE OF EYE CONTACT	Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.
IN CASE OF SKIN CONTACT	Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.
IF INHALED	Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, consult a physician.
IF SWALLOWED	Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.

### 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	Carbon dioxide, dry chemical powder, foam, water
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	Toxic, irritating dust or smoke may be emitted.
SPECIAL PROTECTIVE EQUIPMENT AND	Firemen should wear normal protective equipment(full bunker gear)and positive-pressure self-contained breathing apparatus.

PRECAUTIONS FOR FIREFIGHTERS:	
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## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising dust and avoid contact with skin and eyes.
ENVIRONMENTAL PRECAUTIONS	Prevent spills from entering sewers, watercourses or low areas.
METHODS FOR CLEANING UP	Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Put all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose of contaminated clothing.

## 7. HANDLING AND STORAGE

PRECAUTION FOR SAFE HANDLING	Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection. This material is deliquescent.
CONDITIONS FOR SAFE STORAGE	Store away from sunlight in well-ventilated dry place at room temperature. Keep container tightly closed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE STANDARDS	ACGIH	No data
APPROPRIATE ENGINEERING CONTROLS:		Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
INDIVIDUAL PROTECTION MEASURES	RESPIRATORY PROTECTION	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup Sigma-Aldrich - 270997 Page 4 of 7 to

		engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
	EYE PROTECTION	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
	SKIN PROTECTION	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.
	BODY PROTECTION	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	FORM	Solid
	COLOR	Colorless ~ white
ODOUR		Characteristic odor
ODORODOUR THRESHOLD VALUE		No data
pH		No data
FREEZING POINT :		108 ~ 110 °C
INITIAL BOILING POINT		No data
FLASH POINT		No data
EVAPORATING RATE		No data
FLAMMABILITY(solid, gas)		No data
EXPLOSIVE LIMITS		No data
VAPOR PRESSURE		No data

SOLUBILITY IN	WATER	Very soluble
VAPOR DENSITY		No data
RELATIVE DENSITY		0.8 (20 °C)
PARTITION COEFFICIENT: N-OCTANOL/WATER		-0.91
AUTOIGNITION TEMPERATURE		No data
DECOMPOSITION TEMPERATURE		No data
VISCOSITY		No data
MOLECULAR WEIGHT		254.22

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY & POSSIBILITY OF HAZARDOUS REACTIONS	Stable under recommended storage conditions.
CONDITIONS TO AVOID	Sunlight, heat, moisture
INCOMPATIBLE MATERIALS	Oxidizers, strong alkalis
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide and sulfur oxides may be formed.

## 11. TOXICOLOGICAL INFORMATION

INFORMATION ON THE LIKELY ROUTES OF EXPOSURES:	No data	
HEALTH HAZARD INFORMATION	ACUTE TOXICITY	LD50(oral,rat): 1850mg/kg(NTIS** OTS0570587) LDLo(oral,rabbit): 1300mg/kg(34ZIAG -, 565, 1969) LDLo(skin,rabbit): 7940mg/kg(NTIS** OTS0570587)
	SKIN CORROSION/ SKIN IRRITATION	Probability of SEV = 0.000 (TOPKAT :Skin Irritation)
	EYE DAMAGE/ EYE IRRITATION	Prob. Of SEV Ocular Irritancy = 0.999 (TOPKAT;Ocular Irritancy SEV vs MOD)
	RESPIRATORY SENSITIZATION	No data

	SKIN SENSITIZATION	No data
	CARCINOGENICITY	IARC: No data OSHA: No data ACGIH: No data NTP: No data EU CLP: No data
	GERM CELL MUTAGENICITY	Computed Probability of Mutagenicity = 0.000 (TOPKAT;Ames Mutagen)
	TOXIC TO REPRODUCTION	No data
	SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE	No data
	SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE	No data
	ASPIRATION HAZARD	No data

## 12. ECOLOGICAL INFORMATION

ECOTOXICITY	TO FISH	Phenols-acid; LC50 44191.359 mg/L/ 96hr (ECOSAR)
	TO CRUSTACEA	Phenols-acid; LC50 5108.415mg/L/ 48hr (ECOSAR)
	TO OTHER AQUATIC LIFE	Neutral Organic SAR; EC50 2596.900 mg/L/96hr (ECOSAR)
PERSISTENCE/ DEGRADABILITY	PERSISTENCE	log Kow -0.91 (QSAR)
	DEGRADABILITY	No data
BIOACCUMULATION POTENTIAL	ACCUMUKATION	BCF 3.162 (L/kg wet-wt) (QSAR)
	BIODEGRADABILITY	Cut-off value=0.5495; Rapidly biodegradable (BIOWIN6) (EPI Suite)
MOBILITY IN SOIL		Koc -0.181 (QSAR)
OTHER ADVERSE EFFECTS		No data

13. DISPOSAL CONSIDERATION	
DISPOSAL METHODS	Use only licensed transporters and permitted facilities for waste disposal.
DISPOSAL CONSIDERATIONS	Dispose of this material and its container in accordance with local/regional/national/international regulation.

14. TRANSPORT INFORMATION	
IATA	
UN NUMBER	No data
UN PROPER SHIPPING NAME	No data
TRANSPORT HAZARD CLASS	No data
PACKING GROUP	No data
MARINE POLLUTANT	No data
SPECIAL PRECAUTIONS FOR USER	
IN CASE OF FIRE	No data
IN CASE OF LEAK	No data

15. REGULATORY INFORMATION		
Occupational Safety and Health Act	No data	
Toxic Chemicals Control Act	No data	
Safety Control of Dangerous Substance Act	No data	
Wastes Control Act	No data	
Persistent Organic Pollutants Control Act	No data	
US REGULATIONS	OSHA	Not listed
	CERCLA	Not listed
	EPCRA302	Not listed
	EPCRA304	Not listed
	EPCRA313	Not listed
	ROTTERDAM CONVENTION	Not listed



	STOCKHOLM CONVENTION	Not listed
	MONTREAL PROTOCOL	Not listed
EU CLASSIFICATION INFORMATION	CLASSIFICATION	No data
	RISK PHRASES	No data
	SAFETY PHRASES	No data

<b>16. OTHER INFORMATION</b>	
ORIGINATED DATE	2012.01.01
REVISION NUMBER AND DATE	Revision number: 0 Final revision data: 2012.01.01
OTHER	The information in this MSDS is based on several references and the present state of our knowledge. However, the MSDS dose not always cover all information about product. The information in this MSDS is only provision of information, and It does not represent any guarantee of the properties of the product.