

Expert Synthesis Solutions

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SECTION 1: PRODUCT IDENTIFICATION

Product Name:	Furosemide-D5
Catalog No.:	ESS0191
Product Use:	For laboratory research purposes

SECTION 2: HAZARDS IDENTIFICATION

WHMIS Classification:	CLASS D2A: Very toxic material causing other toxic effects. Teratogen.
GHS Classification:	Acute toxicity, oral (Category 5)
	Reproductive toxicity (Category 1B)

GHS Label elements Pictogram:



Signal word: Hazard statement:	Danger H303: May be harmful if swallowed.
	H360 May damage fertility or the unborn child.
Precautionary statement:	P201: Obtain special instructions before use.
	P202: Do not handle until all safety precautions have been read and understood.
	P260: Do not breath dust/ fume/ gas/ mist/ vapours/ spray. P264: Wash (hands) thoroughly after handling.
	P280: Wear protective gloves/protective clothing/eye protection/ face protection.
Response statements:	P308+313: If exposed or concerned: Get medical attention/ advice.
HMIS Classification	
Health Hazard:	0
Chronic Health Hazard:	Teratogen
Flammability:	0
Physical Hazards: Potential Health Effects	0
Inhalation:	May be harmful in case of inhalation. May cause respiratory tract irritation.
Skin:	May be harmful if absorbed through skin. May cause skin irritation.
Eyes:	May cause eye irritation.
Ingestion:	May be harmful if swallowed.
<u>Other hazards:</u>	No data available.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Companying E (Aminopulfonul) A chlore 2 [(furgenulgenthul DE) eminolly encoded	
Synonyms: 5-(Aminosulfonyl)-4-chloro-2-[(furanylemthyl-D5)amino]benzoic acid	
Formula: C ₁₂ H ₆ CID ₅ N ₂ O ₅ S	
Molecular Weight: 335.74	
CAS No.: 54-31-9 (unlabelled)	

SECTION 4: FIRST AID MEASURES

General Advice:	Consult a physician. Show this SDS. Move out of dangerous area.
If Inhaled:	Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.
In case of skin contact:	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and
	non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin
	with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
In case of eye contact:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold
•	water may be used. Do not use an eye ointment. Seek medical attention.
If swallowed:	Do not induce vomiting. Rinse mouth with water. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible
	indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a
	collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media:	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special protective equipment for firefighters:	Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full
	protective gear. During a fire, toxic gases may be generated by thermal decomposition or combustion.
Hazardous combustion products:	Hazardous decomposition products formed under fire conditions: carbon oxides (CO, CO ₂), nitrogen oxides,
	sulphur oxides, toxic chlorides.
Explosion data:	No data available.
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	700 Collip			SAFETY DATA SHEET Version: 2
	,	N N6G4X8		
		078 <u>info@esschemco.c</u>	<u>com</u>	Revision Date: 03/23/18
SECTION 6: ACCIDE Personal precautio		SE MEASURES	Use proper personal protective equipment as indicated	in soction 8
Environmental pred			Clean up spills immediately, observing precautions in the	
	cautions.		product enter drains.	le l'hoteenve Equipment section. De not let
Methods and mater	rials for conta	inment and cleaning up:	Sweep up, and then place into a suitable container for	disposal.
		J		
SECTION 7: HANDLI	NG AND STO			
Precautions for saf	ie handling:		a away from sources of ignition. Avoid formation of dust ar med. Ground all equipment containing material. Do not in	
Conditions for safe	Ū	protective clothing. In case immediately and show the c Keep container tightly close term storage temperature -2	of insufficient ventilation, wear suitable respiratory equipm container or the label. Avoid contact with skin and eyes. d in a dry and well ventilated place. Ground all equipmen 20°C.	nent. If ingested, seek medical advice
		L / PERSONAL PROTECTIO		
Engineering Contro	DIS:		local exhaust ventilation, or other engineering controls to	keep airborne levels below recommended
Personal protective	aquinmont	exposure limits.		
Respiratory protect		Wear a NIOSH/MSHA or	European Standard EN 149 approved full-facepiece airlin	e respirator in the positive pressure mode
Respiratory protect		with emergency escape p		
Hand protection:			es must be inspected prior to use. Use proper glove remo	val technique (without touching glove's outer
			tact with this product. Dispose of contaminated gloves aft	
			tices. Wash and dry hands.	
Eye protection:		Wear safety glasses with	side-shields conforming to EN166 Use equipment for eye	protection tested and approved under
			standards such as NIOSH (US) or EN166 (EU).	
Skin and body prot	ection:		and clothing to prevent skin exposure.	
Hygiene measures:	:	Handle in accordance wit	h good industrial hygiene and safety practice. Wash hand	is before break and after the end of work day.
SECTION 9: PHYSIC	AL & CHEMIC			

Appearance:	Pale yellow solid
Odour:	No data available.
Odour threshold:	No data available.
pH:	No data available.
Melting point/Freezing point:	No data available.
Initial boiling point/boiling range:	No data available.
Flash point:	No data available.
Evaporation rate:	No data available.
Flammability (solid; gas):	No data available.
Lower flammable/explosive limit:	No data available.
Upper flammable/explosive limit:	No data available.
Vapour pressure:	No data available.
Vapour density:	No data available.
Solubility:	Methanol
Partition coefficient – n-octanol/water:	No data available.
Autoignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

 SECTION 10: STABILITY & REACTIVITY

 Chemical stability:
 Stable under recommended storage conditions.

 Conditions to avoid:
 Not available.

 Possibility of hazardous reactions:
 No data available

 Incompatibilities:
 Strong oxidizing agents.

 Hazardous decompositions products:
 Hazardous decomposition products formed under fire conditions: carbon oxides (CO, CO₂), nitrogen oxides, sulphur oxides, toxic chlorides.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available.
Reproductive toxicity:	May cause congenital malformation in fetus. Presumed human reproductive toxicant.
Potential health effects:	
Inhalation:	May be harmful in case of inhalation. May cause respiratory tract irritation.
Skin:	May be harmful if absorbed through skin. May cause skin irritation.
Eyes:	May cause eye irritation.
Ingestion:	May be harmful if swallowed.
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To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Page 2 of 3



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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	No data available.
Persistence and degradability:	No data available.
Bioaccumulative potential:	No data available.
Mobility in soil:	No data available.
Other adverse effects:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: DISPOSAL CONSIDERATION

Dispose in a manner consistent with federal, state, and local regulations. Product: Contaminated packaging: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

TDG (Canada):	Not dangerous goods.
DOT (US):	Not dangerous goods.
IMDG:	Not dangerous goods.
IATA:	Not dangerous goods.
UN number:	Not available.
UN proper shipping name:	Furosemide-D5, organic compound, solid.
Transport hazard class:	Not dangerous goods.
Packing group:	Not available.
Special precautions:	Ship at room temperature.

SECTION 15: REGULATORY INFORMATION

General:	CLASS D2A: Very toxic material causing other toxic effects. Teratogen.
DSL/NDSL (Canada):	This product is not listed on the Canadian DSL/NDSL.
TSCA (US):	This product is not listed on the US EPA TSCA.
ECHA (EU):	A component of this product is listed on the EU ECHA.

SECTION 16: OTHER INFORMATION

Further Information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. It does not represent any guarantee of the product. Expert Synthesis Solutions shall not be held liable for any damage resulting from handling or from contact with the above product.