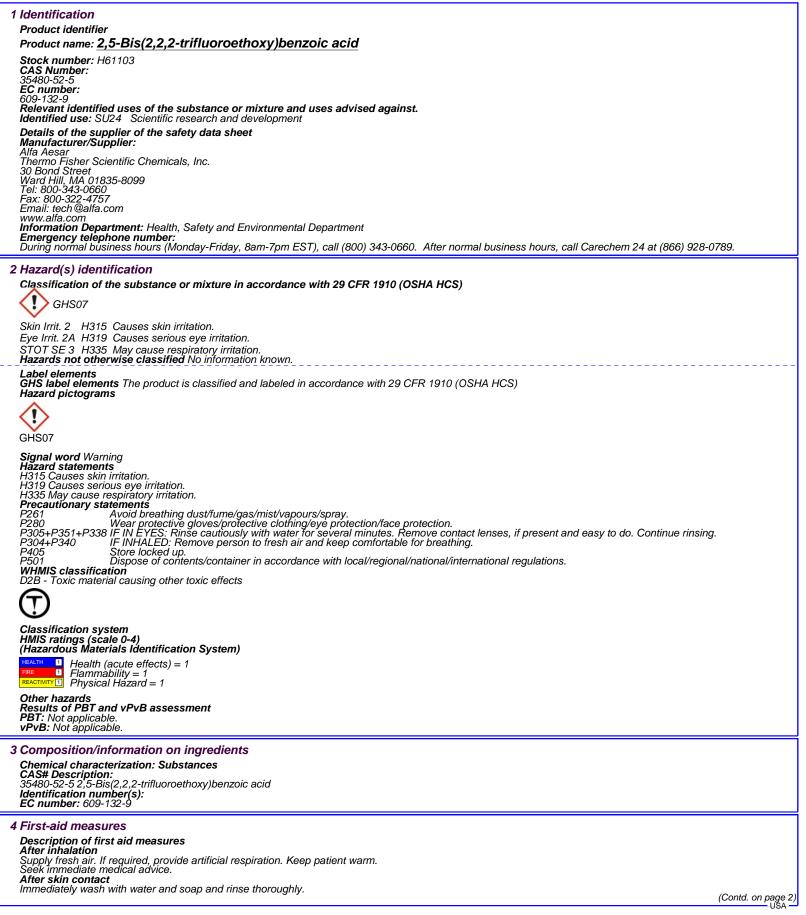


Safety Data Sheet per OSHA HazCom 2012



# Product name: 2,5-Bis(2,2,2-trifluoroethoxy)benzoic acid

(Contd. of page 1)

Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing Seek medical treatment. Information for doctor

Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special freatment needed No further relevant information available.

### 5 Fire-fighting measures

Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Hydrogen fluoride (HF) Advice for fireficient

Advice for firefighters Protective equipment: Wear self-contained respirator.

Wear fully protective impervious suit.

#### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections. See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## 7 Handling and storage

Handling Precautions for safe handling Recautions for safe nanoing Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known.

## Conditions for safe storage, including any incompatibilities

Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data

Exposure controls

#### Personal protective equipment

rersonal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment

Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands:

Impervious gloves

Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Safety glasses Body protection: Protective work clothing.

### 9 Physical and chemical properties

Information on basic physical and General Information Appearance: Form: Color: Odor: Odor threshold:	chemical properties Solid Off-white Not determined Not determined
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Not determined Not determined

(Contd. on page 3)

# Product name: 2,5-Bis(2,2,2-trifluoroethoxy)benzoic acid

Product name: 2,5-Bis(2,2,2-trifluor	roethoxy)benzoic acid	
		(Contd. of page 2
_Sublimation temperature / start:	Not determined	
Flammability (solid, gaseous)	Not determined.	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure:	Not applicable. Not determined	
Density:	Not détermined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water: Partition coefficient (n-octanol/water	Not determined r): Not determined	
Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	Not applicable. No further relevant information available.	
0 Stability and reactivity		
Reactivity No information known.	nmandad ataraga ganditiona	
Thermal decomposition / conditions	nmended storage conditions. to <b>be avoided:</b> Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions R	Reacts with strong oxidizing agents	
Conditions to avoid No further relevant Incompatible materials: Oxidizing age	nt information available.	
Hazardous decomposition products	। -	
Carbon monoxide and carbon dioxide		
Hydrogen fluoride		
1 Toxicological information		
-		
Information on toxicological effects Acute toxicity: No effects known.		
LD/LC50 values that are relevant for	classification: No data	
Skin irritation or corrosion: Causes s	skin irritation.	
Eye irritation or corrosion: Causes se	erious eye irritation.	
Sensitization: No sensitizing effects ki Germ cell mutagenicity: No effects ki	nown.	
Carcinogenicity: No classification data	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects kno	own.	
Specific target organ system toxicity	<b>y - repeated exposure:</b> No effects known. <b>y - single exposure:</b> May cause respiratory irritation.	
Aspiration hazard: No effects known.	<i>r - single exposure:</i> May cause respiratory irritation.	
Subacute to chronic toxicity: No effe	ects known.	
Additional toxicological information	: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
12 Ecological information		
Toxicity		
Aquatic toxicity: No further relevant ir	nformation available.	
Persistence and degradability No fur	ther relevant information available.	
Bioaccumulative potential No further Mobility in soil No further relevant info	relevant information available. Simation available	
Additional ecological information:		
General notes:		
Do not allow unalluted product or large Avoid transfer into the environment	e quantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessme	nt	
PBT: Not applicable.		
vPvB: Not applicable. Other adverse effects No further relev	vant information available.	
3 Disposal considerations		
Waste treatment methods		
Recommendation Consult state. local	l or national regulations to ensure proper disposal.	
Uncleaned packagings:		
Recommendation: Disposal must be r	nade according to official regulations.	
4 Transport information		
UN-Number	Nat and Sacht-	
DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group		
DOT, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Anne	ex II of MARPOL73/78 and the IBC Code Not applicable.	
		(Contd. on page 4

(Contd. on page 4)

Г

Product name: 2,5-Bis(2,2,2-trifluoroethoxy)benzoic acid			
	(Contd. of page		
Transport/Additional information:			
DOT Marine Pollutant (DOT):	No		
UN "Model Regulation":			
15 Regulatory information			
	tions/legislation specific for the substance or mixture ied and labeled in accordance with 29 CFR 1910 (OSHA HCS)		
GHS07			
P280 Wear protective gloves/t   P305+P351+P338 IF IN EYES: Rinse cautii   P305+P351+P338 IF IN EYES: Rinse cautii   P304+P340 IF INHALED: Remove pu   P405 Store locked up.   P501 Dispose of contents/com   National regulations This product is not listed in the U.S. Enviror   to research and development only. This propocut must not be used for commercial pu This product is not listed on the Canadian D   SARA Section 313 (specific toxic chemic California Proposition 65   Prop 65 - Developmental toxicity, female Prop 65 - Developmental toxicity, female   Prop 65 - Developmental toxicity, male S Information about limitation of use: For u   Other regulations, limitations and prohlb Substance of Very High Concern (SVHC)   The conditions of restrictions according market and use must be observed.   Substance is not listed. Annex XIV of the REACH Regulations (regulations (regulations)	<b>icer</b> Substance is not listed. nce is not listed. Substance is not listed. Jubstance is not listed. Juse only by technically qualified individuals.		
information to ensure proper use and protect	as a supplement to other information gathered by them, and should make independent judgement of suitability of this ct the health and safety of employees. This information is furnished without warranty, and any use of the product not in Sheet, or in combination with any other product or process, is the responsibility of the user.		
Department issuing SDS: Global Marketin Date of preparation / last revision 11/24/2 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Che CAS: Chemical Abstracts Service (division of the America HMIS; Hazardous Materials Identification System (USA)	ng Department 2015 / - s dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) amical Substances in Chemical Society) tam (Generate)		
WHMLS. WIGHER HEALTOUS WHENTER INFORMATION SYST LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial OSHA: Occupational Safety and Health Administration (U. NTP: National Toxicology Program (USA) LARC: International Agency for Research on Cancer	Hygienists (USA) SA)		

IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)