

SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 4

1.	Identification	

Product Name

Hexafluorobenzene

Cat No. : AC120540000; AC120540100; AC120541000; AC120545000

CAS No Synonyms 392-56-3 Perfluorobenzene

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids

Category 2

Label Elements

Signal Word Danger

Hazard Statements Highly flammable liquid and vapor



Precautionary Statements Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting equipment Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/protective clothing/eye protection/face protection Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store in a well-ventilated place. Keep cool Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Hexafluorobenzene		>95		
4. First-aid measures				
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.				
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.				
Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.				
Clean mouth with water. Get medical attention.				
Difficulty in breathing Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting Treat symptomatically				
5. Fi	re-fighting measures			
	Rinse immed medical atter Wash off imn clothes and s Remove from If not breathin Clean mouth Difficulty in b headache, di Treat sympto	Rinse immediately with plenty of water, also under the medical attention. Wash off immediately with soap and plenty of water clothes and shoes. Get medical attention. Remove from exposure, lie down. Remove to fresh a If not breathing, give artificial respiration. Get medical Clean mouth with water. Get medical attention. Difficulty in breathing Inhalation of high vapor cond headache, dizziness, tiredness, nausea and vomiting		

Suitable Extinguishing Media	Carbon dioxide (CO 2). Dry chemical. Chemical foam. Water mist may be used to cool closed containers.
Unsuitable Extinguishing Media	No information available

Flash Point	10 °C / 50 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available

Specific Hazards Arising from the Chemical Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Gaseous hydrogen fluoride (HF). Fluorine.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>	Health 0	Flammability 3	Instability 0	Physical hazards N/A		
		6. Accidental rele	ease measures			
	Precautions ental Precautions	Remove all sources of ignition. Use personal protective equipment as required. Take precautionary measures against static discharges. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.				
Methods ⁻ Up	Methods for Containment and Clean Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Do not let this chemical enter the environment.					
		7. Handling a	nd storage			
Handling		Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.				
Storage.		Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Flammables area. Keep container tightly closed in a dry and well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong acids. Metals.				
	8. Exposure controls / personal protection					
Exposure	Guidelines		in any hazardous materials wit on specific regulatory bodies.	h occupational exposure		
Engineeri	ing Measures		al/ventilating/lighting equipmen e to the workstation location. E	nt. Ensure that eyewash stations Ensure adequate ventilation,		

	especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Clear
Odor	Characteristic
Odor Threshold	No information available
pH	No information available
Melting Point/Range	3.7 - 4.1 °C / 38.7 - 39.4 °F
Boiling Point/Range	81 - 82 °C / 177.8 - 179.6 °F @ 743 mmHg
Flash Point	10 °C / 50 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	77 mbar @ 20 °C
Vapor Density	> 5.0
Specific Gravity	1.612
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C6 F6
Molecular Weight	186.06

10. Stability and reactivity

Reactive Hazard None known, based on information available			
Stability	Stable under normal conditions.		
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.		
Incompatible Materials Strong oxidizing agents, Strong acids, Metals			
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Gaseous hydrogen fluoride (HF), Fluorine			
Hazardous Polymerization	No information available.		
Hazardous Reactions	None under normal processing.		
	11. Toxicological information		

Acute Toxicity

Product Information

Component Inform		LD50 Oral		LD50 Dermal	1 050	nhalation	
Component Hexafluorobenzene		Not listed		Not listed		m ³ /2h (Mouse)	
oxicologically Syr		No information ava	ailable	Not noted	00000 mg/		
Products	-						
Delayed and immed	diate effects a	s well as chronic effe	cts from short ar	d long-term expo	<u>osure</u>		
rritation		No information ava	ailable				
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	dicates whether e	ach agency has lis	ted any ingredient a	as a carcinogen	
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
Hexafluorobenzene	392-56-3	Not listed	Not listed	Not listed	Not listed	Not listed	
Autagenic Effects		No information ava	ailable				
Reproductive Effec	ts	No information ava	ailable.				
Developmental Effe	ects	No information ava	ailable.				
Feratogenicity		No information ava	No information available.				
STOT - single exposure STOT - repeated exposure		None known None known					
Aspiration hazard		No information ava	No information available				
Symptoms / effects,both acute and delayed			Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting				
Endocrine Disrupto	or Information	No information ava	No information available				
Other Adverse Effects		•	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.				
		12. Ecolo	ogical infor	mation			
<u>Ecotoxicity</u> Do not empty into dr	ains.						
Persistence and Degradability		Persistence is unli	Persistence is unlikely based on information available.				
Bioaccumulation/ Accumulation		No information ava	No information available.				
Mobility		Will likely be mobil	Will likely be mobile in the environment due to its volatility.				
		13. Dispo	sal conside	erations			
Naste Disposal Me	thods		Chemical waste generators must determine whether a discarded chemical is classified as a				
Waste Disposal Me	thods	Chemical waste ge	enerators must de				

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT UN-No	UN1993
Hazard Class	3
Packing Group	II
_ <u>TDG</u> UN-No	UN1993
Hazard Class	3

Packing Group	II
<u>IATA</u>	
UN-No	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.*
Hazard Class	3
Packing Group	ll
IMDG/IMO	
UN-No	UN1993
Proper Shipping Name	Flammable liquid, n.o.s.
Hazard Class	3
Packing Group	II
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Hexafluorobenzene	392-56-3	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Hexafluorobenzene	392-56-3	-	Х	206-876-2	Х	Х	Х	-	-	KE-18539

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant	N N

DOT Severe Marine Pollutant

U.S. Department of Homeland This product does not contain any DHS chemicals. Security

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Other International Regulations

Mexico - Grade Serious risk, Grade 3

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Hexafluorobenzene	392-56-3	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Hexafluorobenzene	392-56-3	Not applicable	Not applicable	Not applicable	Annex I - Y45

16. Other information		
Prepared By	Regulatory Affairs	
	Thermo Fisher Scientific	
	Email: EMSDS.RA@thermofisher.com	
Revision Date	24-Dec-2021	
Print Date	24-Dec-2021	
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).	

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS