

SAFETY DATA SHEET

Revision Date 23-Feb-2022

Revision Number 5

1. Identification

Product Name

Perfluorooctyl bromide

Cat No. :

AC386790000; AC386790100; AC386790500

CAS No Synonyms

1-Bromo-heptadecafluorooctane

423-55-2

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)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

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

Storage

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

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

WARNING. Cancer and Reproductive Harm - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component		CAS No	Weight %				
1-Bromoheptadecafluoroo	ctane	423-55-2	99				
	4.	First-aid measures					
Eye Contact	Rinse immec medical atter	liately with plenty of water, also under th ntion.	ne eyelids, for at least 15 minutes. Get				
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.						
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.						
Ingestion	Clean mouth with water. Get medical attention.						
Most important symptoms and effects Notes to Physician	headache, di	culty in breathing. Inhalation of high vapor concentrations may cause symptoms like dache, dizziness, tiredness, nausea and vomiting at symptomatically					
	5. Fi	re-fighting measures					

Suitable Extinguishing Media	Carbon dioxide (CO 2). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature	450 °C / 842 °F
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

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

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 2	Flammability 0	Instability 0	Physical hazards N/A				
		6. Accidental rel	lease measures					
	Precautions nental Precautions	Ensure adequate ventilatio See Section 12 for addition	n. Use personal protective eq al Ecological Information.	uipment as required.				
Methods Up	for Containment a	nd Clean Soak up with inert absorbe sawdust). Keep in suitable,	nt material (e.g. sand, silica g closed containers for dispose					
		7. Handling a	and storage					
Handling		Avoid contact with skin and	l eyes. Do not breathe mist/va	apors/spray.				
Storage.			II-ventilated place. Keep conta gagents. Strong acids. Metals	ainer tightly closed. Incompatible				
		8. Exposure controls	/ personal protect	ion				
Exposure	e Guidelines		ain any hazardous materials v jion specific regulatory bodies					
Engineeri	Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash station and safety showers are close to the workstation location.							
<u>Personal</u>	Protective Equipm	ent_						
Eye/fa	ace Protection		e eyeglasses or chemical safe action regulations in 29 CFR 1	ety goggles as described by 910.133 or European Standard				

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure. No protective equipment is needed under normal use conditions. **Respiratory Protection Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	6 °C / 42.8 °F
Boiling Point/Range	142 °C / 287.6 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	5.9 mbar @ 20 °C
Vapor Density	No information available
Specific Gravity	1.930
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	450 °C / 842 °F
Decomposition Temperature	No information available
Viscosity	2.3 mPa.s at 20 °C
Molecular Formula	C8 Br F17
Molecular Weight	498.95

10. Stability and reactivity

Reactive Hazard	None known, based on information available					
Stability	Stable under normal conditions.					
Conditions to Avoid	Incompatible products.					
Incompatible Materials	Strong oxidizing agents, Strong acids, Metals					
Hazardous Decomposition Produc	ts Carbon monoxide (CO), Carbon dioxide (CO ₂), Hydrogen halides, Gaseous hydrogen fluoride (HF)					
Hazardous Polymerization	No information available.					
Hazardous Reactions	None under normal processing.					
	11. Toxicological information					
Acute Toxicity						
Product Information	No acute toxicity information is available for this product					
Component Information Toxicologically Synergistic Products	No information available					
Delayed and immediate effects as	well as chronic effects from short and long-term exposure					
Irritation						

Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
1-Bromoheptadecafluo rooctane	423-55-2	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects		No information ava	ailable						
Reproductive Effect	oductive Effects No information available.								
Developmental Effe	cts	No information available.							
Teratogenicity		No information ava	ailable.						
STOT - single expos STOT - repeated exp		Respiratory system None known							
Aspiration hazard		No information available							
Symptoms / effects delayed	,both acute and	Id Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting							
Endocrine Disruptor	r Information	No information available							
Other Adverse Effect	ts	The toxicological properties have not been fully investigated.							
		12. Ecol	ogical infor	mation					
Ecotoxicity Do not empty into dra	ins.								
Persistence and Deg	gradability	Insoluble in water Persistence is unlikely based on information available.							
Bioaccumulation/ A	ccumulation	No information ava	ailable.						
Mobility		Is not likely mobile in the environment due its low water solubility. Will likely be mobile in the environment due to its volatility.							

Component	log Pow
1-Bromoheptadecafluorooctane	6.1

13. Disposal considerations

Waste Disposal MethodsChemical 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	Not regulated						
DOT _ <u>TDG</u> IATA_	Not regulated						
IATA_	Not regulated						
IMDG/IMO	Not regulated						
	15. Regulatory information						

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
1-Bromoheptadecafluorooctane	423-55-2	-	-	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

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
1-Bromoheptadecafluorooctane	423-55-2	-	-	207-028-4	-	-	Х	-	Х	-

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

CERCLA

California Proposition 65

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
1-Bromoheptadecafluoro	423-55-2	Carcinogen	-	Carcinogen
octane		Developmental		Developmental
U.S. State Right-to-Know	Not applicabl	e		
Regulations				

U.S. Department of Transportation Reportable Quantity (RQ): Ν

DOT Marine Pollutant DOT Severe Marine Pollutant	N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
1-Bromoheptadecafluorooctan e	423-55-2	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)
1-Bromoheptadecafluorooctan e	423-55-2	Not applicable	Not applicable	Not applicable	Not applicable

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

16. Other information				
Prepared By	Regulatory Affairs Thermo Fisher Scientific			
	Email: EMSDS.RA@thermofisher.com			
Revision Date	23-Feb-2022			
Print Date	23-Feb-2022			
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