

# SAFETY DATA SHEET

Revision Date 23-Feb-2022

**Revision Number** 3

	1. Identification	
Product Name	1-Bromoperfluorononane	
Cat No. :	L14231	
Synonyms	No information available	
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.	
Details of the supplier of the	safety data sheet	
Company Alfa Aesar Thermo Fisher Scientific Chem 30 Bond Street	icals, Inc.	

Thermo Fisher Scientific Chemicals, Inc 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

**Emergency Telephone Number** 

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

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

#### Eves

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. Reproductive Harm - https://www.p65warnings.ca.gov/.

# 3. Composition/Information on Ingredients

Component		CAS No	Weight %	
1-Bromoperfluorononane		558-96-3	<=100	
	4. Fi	irst-aid measures		
General Advice	If symptoms pe	rsist, call a physician.		
	ii eyinptonio pe			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.			
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.			
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.			
Most important symptoms and	None reasonably foreseeable May cause methemoglobinemia			

fects otes to Physician Treat symptomatically						
	5. Fire-fightin	ig measures				
Unsuitable Extinguishing Media	No information available					
Flash Point Method -	No information available No information available					
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No information available No data available No data available ct No information available No information available					
Specific Hazards Arising from the C Keep product and empty container aw		ignition.				
Hazardous Combustion Products None known. Protective Equipment and Precaution As in any fire, wear self-contained breat protective gear.		emand, MSHA/NIOSH (approve	ed or equivalent) and full			
NFPA Health 2	Flammability 1	Instability 0	Physical hazards -			
	6. Accidental rel	ease measures				
Personal Precautions						
Environmental Precautions	formation.	b the environment. See Section	oment as required. Avoid dust 12 for additional Ecological			
	formation. Should not be released into Information.	the environment. See Section	12 for additional Ecological			
Environmental Precautions Methods for Containment and Clear	formation. Should not be released into Information. Sweep up and shovel into s	o the environment. See Section suitable containers for disposal.	12 for additional Ecological			
Environmental Precautions Methods for Containment and Clear	formation. Should not be released into Information. Sweep up and shovel into s containers for disposal. 7. Handling a Wear personal protective e	o the environment. See Section suitable containers for disposal.	12 for additional Ecological Keep in suitable, closed re adequate ventilation. Do not			
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Environmental Precautions Methods for Containment and Clear Up Handling Storage. <u>8. Exposure Guidelines</u>	formation. Should not be released into Information. Sweep up and shovel into s containers for disposal. 7. Handling a Wear personal protective e get in eyes, on skin, or on o Keep containers tightly close (posure controls of This product does not conta limitsestablished by the reg	o the environment. See Section suitable containers for disposal. and storage quipment/face protection. Ensue clothing. Avoid ingestion and inh sed in a dry, cool and well-ventil (personal protection ain any hazardous materials wit ion specific regulatory bodies.	12 for additional Ecological Keep in suitable, closed re adequate ventilation. Do not alation. Avoid dust formation. ated place.			

	EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical	and chemical	properties
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White

No information available No information available ~ 27 °C / 80.6 °F 159 °C / 318.2 °F No information available Not applicable No information available No data available No data available No information available Not applicable 1.9 g/cm3 No information available No data available No information available No information available Not applicable C9 BrF19 548.97

Solid Low melting solid

No information available

# 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
Hazardous Decomposition Product	s None under normal use conditions
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

# 11. Toxicological information

# Acute Toxicity

 Product Information

 Component Information

 Toxicologically Synergistic
 No information available

 Products

 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No informa	ion available
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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-Bromoperfluoronona	558-96-3	Not listed	Not listed	Not listed	Not listed	Not listed
ne Mutagenic Effects		No information ava	No information available			
Reproductive Effect	ts	No information ava	ailable.			
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single exposision STOT - repeated ex		Respiratory systen None known	n			
Aspiration hazard		No information ava	ailable			
Symptoms / effects delayed	s,both acute and	May cause mether	moglobinemia			
Endocrine Disrupto	r Information	No information ava	ailable			
Other Adverse Effe	cts	The toxicological p	properties have no	been fully investig	jated.	
		12. Ecol	ogical infor	mation		
Ecotoxicity Do not empty into dra	ains.					
Persistence and De	gradability	Insoluble in water	May persist based	on information ava	ailable.	
Bioaccumulation/ A	ccumulation	No information ava	ailable.			
Mobility		Is not likely mobile in the environment due its low water solubility.				
		13. Dispo	sal conside	erations		
Waste Disposal Me	thods	Chemical waste generators must determine whether a discarded chemical is classifie hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.				
			sport infor	mation		
DOT		Not regulated				
		Not regulated Not regulated				
<u>IATA</u> IMDG/IMO		Not regulated				
		rior regulated				

# 15. Regulatory information

# United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
1-Bromoperfluorononane	558-96-3	-	-	-

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 Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

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
1-Bromoperfluorononane	558-96-3	-	-	-	-	-		-	-	-

**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
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable

# California Proposition 65

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65 Prop 65 NSRL		Category
1-Bromoperfluorononane	558-96-3	Male reproductive	-	Developmental
U.S. State Right-to-Know	Not applicable	Э		
Regulations				

<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N 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				

#### 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)
1-Bromoperfluorononane	558-96-3	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)
1-Bromoperfluorononane	558-96-3	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Revision Date Print Date Revision Summary	23-Feb-2022 23-Feb-2022 SDS authoring systems update, replaces ChemGes SDS No. 558-96-3.

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