

# SAFETY DATA SHEET

Revision Date 25-Dec-2021

**Revision Number** 4

# 1. Identification

#### Product Name

#### 5-Bromo-1-pentene

# Cat No. : AC295170000; AC295170025; AC295170100; AC295170500

CAS No Synonyms 1119-51-3 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

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

#### Label Elements

Signal Word Warning

Hazard Statements Flammable liquid and vapor 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 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 Keep cool 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 skin irritation occurs: Get medical advice/attention IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing 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 eve irritation persists: Get medical advice/attention Fire In case of fire: Use CO2, dry chemical, or foam for extinction 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

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %	
1-Pentene, 5-bromo-	1119-51-3	>95	

### 4. First-aid measures

General AdviceIf symptoms persist, call a physician. Show this safety data sheet to the doctor in<br/>attendance.Eye ContactImmediate medical attention is required. Rinse immediately with plenty of water, also under<br/>the eyelids, for at least 15 minutes. Immediately flush with plenty of water. After initial<br/>flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye

	wide open while rinsing. If symptoms persist, call a physician.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention. Call a physician immediately. SPEEDY ACTION IS CRITICAL, GET MEDICAL AID IMMEDIATELY. If symptoms persist, call a physician. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required. Artificial respiration and/or oxygen may be necessary. Consult a physician if necessary. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.
Ingestion	Clean mouth with water. Get medical attention. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Most important symptoms and effects Notes to Physician	Difficulty in breathing Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically
	5 Fire-fighting measures

5. Fire-fighting measures

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	30 °C / 86 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available

Sensitivity to Static Discharge 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 (CO<sub>2</sub>). Hydrogen halides.

# 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.

NFPA Health 2	Flammability 3	<b>Instability</b> 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions			rres against static discharges. personnel to safe areas. Keep
Environmental Precautions	See Section 12 for addition	al Ecological Information. Do n	ot flush into surface water or

	sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods for Containment and Clear Up	n Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Sweep up and shovel into suitable containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
	7. Handling and storage
Handling	Keep away from heat/sparks/open flames/hot surfaces No smoking. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges. Pay attention to flashback. No information available. Do not take internally.
Storage.	Refrigerator/flammables. Material darkens in color during storage. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep away from heat, sparks and flame. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Incompatible Materials. Strong oxidizing agents. Strong bases.
8. E>	xposure controls / personal protection
Exposure Guidelines Engineering Measures	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies. Ensure adequate ventilation, especially in confined areas. Ventilation systems. Ensure that
	eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment.
Personal Protective Equipment	
Eye/face Protection	Tight sealing safety goggles. Face protection shield.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure. Apron. Impervious gloves.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
Hygiene Measures	When using do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.
9	. Physical and chemical properties
Physical State Appearance Odor Odor Threshold pH	Liquid Light yellow No information available No information available No information available

rippouranee
Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density

126 - 127 °C / 258.8 - 260.6 °F @ 765 mmHg 30 °C / 86 °F No information available Not applicable

No data available No data available No information available No information available

Specific Gravity	
Solubility	
Partition coefficient; n-octanol/water	
Autoignition Temperature	
Decomposition Temperature	
Viscosity	
Molecular Formula	
Molecular Weight	

1.260 No information available No data available No information available No information available No information available C5 H9 Br 149.03

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under recommended storage conditions.
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.
Incompatible Materials	Strong oxidizing agents, Strong bases
Hazardous Decomposition Product	<b>s</b> Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Hydrogen halides
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       No information available         Toxicologically Synergistic       No information available         Products       Delayed and immediate effects as well as chronic effects from short and long-term exposure						
Irritation		No information available				
Sensitization		No information ava	ailable			
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ed any ingredient a	as a carcinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
1-Pentene, 5-bromo-	1119-51-3	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava				
Reproductive Effects Developmental Effects		No information available. No information available.				
Teratogenicity No information available.			ailable.			
STOT - single exposure STOT - repeated exposure		Respiratory system None known				
Aspiration hazard		No information available				
Symptoms / effects, both acute and Symptoms of overexposure may be headache, dizziness, tired delayed		s, tiredness, nause	ea and vomiting			
Endocrine Disruptor Information		No information available				

Other Adverse Effects	The toxicological properties have not been fully investigated.		
	12. Ecological information		
Ecotoxicity Do not empty into drains.			
Persistence and Degradability	No information available		
<b>Bioaccumulation/ Accumulation</b>	No information available.		
Mobility	No information available.		
	13. Disposal considerations		
Waste Disposal Methods         Chemical waste generators must determine whether a discarded chemical is classification hazardous waste. Chemical waste generators must also consult local, regional national hazardous waste regulations to ensure complete and accurate classification.			

## 14. Transport information

DOT	
UN-No	UN1993
Proper Shipping Name	Flammable liquid, n.o.s.
Technical Name	1-Pentene, 5-bromo-
Hazard Class	3
Packing Group	III
TDG	
UN-No	UN1993
Proper Shipping Name	Flammable liquid, n.o.s.
Hazard Class	3
Packing Group	III
IATA	
UN-No	UN1993
Proper Shipping Name	Flammable liquid, n.o.s.
Hazard Class	3
Packing Group	III
IMDG/IMO	
UN-No	UN1993
Proper Shipping Name	Flammable liquid, n.o.s.
Hazard Class	3
Packing Group	III
	15. Regulatory information

#### United States of America Inventory

Con	ponent	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
1-Pente	ne, 5-bromo-	1119-51-3	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
1-Pentene, 5-bromo-	1119-51-3	-	Х	214-281-4	-	Х	Х	-	-	KE-03698

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 U.S. State Right-to-Know Regulations	This product does not contain any Proposition 65 chemicals. Not applicable
<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	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)
1-Pentene, 5-bromo-	1119-51-3	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-Pentene, 5-bromo-	1119-51-3	Not applicable	Not applicable	Not applicable	Not applicable

# 16. Other information

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Revision Date Print Date Revision Summary 25-Dec-2021 25-Dec-2021 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

