

Safety Data Sheet



Division of Fresno Oxygen



Barnes Welding Supply/Barnes Specialty Gases

Division of Fresno Oxygen

2825 S. Elm Ave. #101
Fresno, California 93706
Toll Free: (800) 404-9353
Fax: (559) 233-4206
<http://www.barnesweldingsupply.com>
E-mail: info@barneswelding.com

Document #: G-233

Emergency Phone:
International

Infotrac 1(800) 535-5053
Infotrac 1(352) 323-3500

Section 1: Product and Company Identification

Barnes Welding Supply / Barnes Specialty Gases - Division of Fresno Oxygen

2825 S. Elm Ave. #101
Fresno, CA 93706
(800) 404-9353 Toll Free
(559) 233-4206 Fax
<http://barnesweldingsupply.com>
info@barneswelding.com
FOR CHEMICAL EMERGENCIES DURING TRANSPORTATION ONLY CALL INFOTRAC 1-800-535-5053

Product Name: 1-Pentene
Part Number: 1-Pentene

Section 2: Hazards Identification



Danger

Hazard Classification:

Aspiration Hazard (Category 1)
Flammable (Category 1)
Gases Under Pressure

Hazard Statements:

Contains gas under pressure; may explode if heated
Extremely flammable gas
May be fatal if swallowed and enters airways

Precautionary Statements

Prevention:
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Response:

Do NOT induce vomiting.
Eliminate all ignition sources if safe to do so.
If swallowed: Rinse mouth. Do NOT induce vomiting.
Immediately call a poison center or doctor.
Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Storage:

Protect from sunlight.
Store in well-ventilated place.
Store locked up.

Disposal:

Dispose of contents and/or container in accordance with applicable regulations.

Section 3: Composition/Information on Ingredients

CAS #
109-67-1

Chemical Substance	Chemical Family	Trade Names
1-PENTENE	Hydrocarbons, Aliphatic, Unsaturated	ALPHA-N-AMYLENE; PROPYLETHYLENE; PENTENE; AMYLENE; UN 1108; C5H10

Section 4: First Aid Measures

Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
If it is safe to do so, remove victim to an uncontaminated area, and place them in a comfortable position to wait for medical attention. Immediately remove contaminated clothes and shoes. Cleanse the affected skin areas thoroughly with soap under running water for 15 minutes. Seek medical treatment.	Rinse the affected eye thoroughly for 10 minutes under running water. Seek immediate medical treatment.	Seek medical treatment. Do not induce vomiting if the victim.	If it is safe to do so, remove victim to fresh air, and place them in a comfortable position to wait for medical attention. Administer oxygen or artificial respiration if breathing is difficult. Seek immediate medical treatment.	For inhalation, consider oxygen. For ingestion, consider gastric lavage.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Alcohol resistant foam, carbon dioxide, regular dry chemical, water. Large fires: Use alcohol-resistant foam or flood with fine water spray.	Carbon monoxide, carbon dioxide	- Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. - Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.

Section 6: Accidental Release Measures

Personal Precautions	Environmental Precautions	Methods for Containment
Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.	Avoid heat, flames, sparks and other sources of ignition.	Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition.

Methods for Cleanup	Other Information
Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal.	None

Section 7: Handling and Storage

Handling	Storage
Keep container tightly closed in a locked area. Protect from sunlight. Protect from ignition sources. Secure cylinders upright to keep them from falling or being knocked over. Store only where temperature will not exceed 125°F (52°C).	Always handle in a well ventilated area. Use only in closed systems. Open valve slowly. Close cylinder valve after each use; keep closed even when empty. Avoid contact with skin and eyes. Keep away from heat and ignition sources.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines
1-PENTENE: No occupational exposure limits established.

Engineering Controls

Handle only in fully enclosed systems.

Eye Protection	Skin Protection	Respiratory Protection
Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and shower in work area.	Wear appropriate chemical resistant clothing.	Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor	Taste
Liquid	Colorless	Colorless	N/A	Liquid	Unpleasant odor	N/A

Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
-18 F (-28 C) (CC)	IA		527 F (275 C)	0.087	0.015

Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	pH	Odor Threshold	Evaporation Rate	Viscosity
86 F (30 C)	-265 F (-165 C)	495 mmHg @ 18 C	2.4 (Air=1)	0.6405	Insoluble	Not available	0.19 ppm	Not available	Not available

Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
70.13	C-H3-(C-H2)2-C-H-C-H2	Not available	Not available	Not available	Not available	Soluble: Alcohol, ether, benzene

Section 10: Stability and Reactivity

Stability	Conditions to Avoid	Incompatible Materials
Stable at normal temperatures and pressure. May form explosive peroxides. Avoid contact with air, light or storage and use above room temperature.	Stable at normal temperatures and pressure. May form explosive peroxides. Avoid contact with air, light or storage and use above room temperature.	Oxidizing materials, halogens, acids

Hazardous Decomposition Products	Possibility of Hazardous Reactions
Oxides of carbon. May form explosive, shock- and heat-sensitive organic peroxides when exposed to air.	Will not polymerize.

Section 11: Toxicology Information

Acute Effects		
Oral LD50	Dermal LD50	Inhalation
Inhalation LC50 Rat 175000 mg/m ³ 4 h	Not established	Irritation, nausea, vomiting, symptoms of drunkenness, suffocation, convulsions, coma

Eye Irritation	Skin Irritation	Sensitization
Irritation	Irritation	Aspiration hazard, Category 1: H304: May be fatal if swallowed and enters airways.

Chronic Effects			
Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
Not listed.	Not established	Not established	No data

Section 12: Ecological Information

Fate and Transport	Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
	Fish toxicity: Not available Invertebrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available	Not available	Not available	Not available

Section 13: Disposal Considerations

Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001. Dispose in accordance with all applicable regulations.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101							
Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
1-Pentene	UN1108	3	I	3	1 kg or L	30 L	N/A

Canadian Transportation of Dangerous Goods			
Shipping Name	UN Number	Class	Packing Group / Risk Group
1-PENTENE (n-amylen)	UN1108	3	I

Section 15: Regulatory Information

U.S. Regulations		
CERCLA Sections	SARA 355.30	SARA 355.40
Not regulated.	Not regulated.	Not regulated.

SARA 370.21				
Acute	Chronic	Fire	Reactive	Sudden Release
Yes	No	Yes	No	No

SARA 372.65
Not regulated.

OSHA Process Safety
Not regulated.

State Regulations
CA Proposition 65
Not regulated.

Canadian Regulations
WHMIS Classification
B

National Inventory Status		
US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
Listed on inventory.	Not listed.	Not determined.

Section 16: Other Information

NFPA Rating
HEALTH=2 FIRE=4 REACTIVITY=0

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard