

Safety Data Sheet



Division of Fresno Oxygen

Barnes Welding Supply/Barnes Specialty Gases

Division of Fresno Oxygen

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Section 1: Product and Company Identification

Barnes Welding Supply / Barnes Specialty Gases - Division of Fresno Oxygen
2825 S. Elm Ave. #101
Fresno, CA 93706
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FOR CHEMICAL EMERGENCIES DURING TRANSPORTATION ONLY CALL INFOTRAC
1-800-535-5053

Product Name: Acetone
Part Number: Acetone

Section 2: Hazards Identification



Hazard Classification:

Eye Effects (Category 2,B)
Flammable (Category 1)
Gases Under Pressure
Specific target organ toxicity (Single Exposure) (Category 3)

Hazard Statements:

Causes eye irritation
Contains gas under pressure; may explode if heated
Extremely flammable gas
May cause respiratory irritation;

Precautionary Statements

Prevention:
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Wash thoroughly after handling.
Avoid breathing dust/fume/gas/mist/ vapors/spray.
Use only outdoors or in a well-ventilated area.
[In case of inadequate ventilation] wear respiratory protection.

Response:

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Eliminate all ignition sources if safe to do so.
Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
Call a poison center or doctor if you feel unwell.

Storage:

Store locked up.
Protect from sunlight.
Store in a well-ventilated place. Keep container tightly closed.

Disposal:

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

Section 3: Composition/Information on Ingredients

CAS #	Chemical Family	Trade Names
67-64-1		
Chemical Substance	Chemical Family	Trade Names
ACETONE	Ketones	DIMETHYLFORMALDEHYDE; DIMETHYLKETAL; DIMETHYL KETONE; BETAKETOPROPANE; PROPANONE; 2-PROPANONE; PYROACETIC ETHER; B-KETOPROPANE; Dimethyl formaldehyde; Ketone propane; beta-Ketopropone; Methyl ketone; Pyroacetic acid; A-18; A-18-S; A-18-SK; A-11; A-11-S; A-16-P; A-16-S; 1-949; A-40; A-20; A-19; A-946; RCRA U002; UN1090; C3H6O

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 it is safe to do so, remove victim to a comfortable position to wait for medical attention. Administer oxygen or artificial respiration if breathing is difficult. Seek immediate medical treatment.	For ingestion, consider gastric lavage and activated charcoal slurry.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Alcohol resistant foam, carbon dioxide, regular dry chemical, water, alcohol resistant foam. Large fires: Use alcohol-resistant foam or flood with fine water spray.	Carbon monoxide, carbon dioxide and toxic and irritating fumes	- Any self-contained breathing apparatus with a full facepiece. - Use protective gear, including self-contained breathing apparatus.

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 noncombustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal.	Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).

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 125F (52C).	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
ACETONE: 1000 ppm (2400 mg/m3) OSHA TWA 750 ppm (1780 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 1000 ppm (2375 mg/m3) OSHA STEL (vacated by 58 FR 35338, June 30, 1993) 500 ppm ACGIH TWA 750 ppm ACGIH STEL 250 ppm (590 mg/m3) NIOSH recommended TWA 10 hour(s)

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 with a full facepiece.

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	Clear	Colorless	N/A	Liquid	Sweet odor, minty odor, pungent odor, pleasant odor	Sweet taste

Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
-4 F (-20 C) (CC)	IB		869 F (465 C)	0.13	0.025

Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	pH	Odor Threshold	Evaporation Rate	Viscosity
133 F (56 C)	-139 F (-95 C)	180 mmHg @ 20 C	2 (Air=1)	0.7899	Soluble	Neutral in solution	20 ppm	14.4 (butyl acetate=1)	0.32 mPa.s (0.32 centipoises) @ 20 C; 0.31 mPa.s (0.31 centipoises) @ 25 C

Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
58.08	C-H3-C-O-C-H3	Not available	Not available	Not available	1	Soluble: Ethanol, ether, chloroform, benzene, oils, dimethylformamide

Section 10: Stability and Reactivity

Stability	Conditions to Avoid	Incompatible Materials
Stable at normal temperatures and pressure. Prolonged exposure to direct sunlight may result in the formation of carbon monoxide.	Stable at normal temperatures and pressure. Prolonged exposure to direct sunlight may result in the formation of carbon monoxide.	Acids, amines, halogens, halo carbons, oxidizing materials, metal salts, peroxides, combustible materials, bases, HEXACHLOROMELAMINE or TRICHLOROMELAMINE, POTASSIUM TERT-BUTOXIDE, NITRIC ACID and ACETIC ACID, HALOGENATED SOLVENT/ALKALI MIXTURES, STRONG REDUCING AGENTS, SULFUR DICHLORIDE, 2-METHYL-1,3-BUTADIENE (ISOPRENE)

Hazardous Decomposition Products	Possibility of Hazardous Reactions
Oxides of carbon. Formaldehyde, methanol, acetic acid, hydrogen peroxide, methane and ethylene oxide may be formed during fire.	Will not polymerize.

Section 11: Toxicology Information

Acute Effects

Oral LD50	Dermal LD50	Inhalation
5800 mg/kg oral-rat LD50	>9400 ul/kg skin-guinea pig LD50	Irritation, low body temperature, nausea, stomach pain, difficulty breathing, headache, drowsiness, symptoms of drunkenness, kidney damage, liver damage, coma

Eye Irritation	Skin Irritation	Sensitization
Irritation	Irritation	Eye irritation, Category 2: H319: Causes serious eye irritation. Specific Target Organ Toxicity (single exposure), Category 3, H336: May cause drowsiness or dizziness.

Chronic Effects

Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
ACGIH: A4 -Not Classifiable as a Human Carcinogen	Available.	Available.	No data

Section 12: Ecological Information

Fate and Transport

Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Fish toxicity: 14,250 ppm 24 hr(s) Sunfish, 4 ug/L 96 hour(s) LC50 (Mortality) Harlequinfish, red rasbora (Rasbora heteromorpha) Invertebrate toxicity: 35 ug/L 48 hour(s) EC50 (Immobilization) Water flea (Daphnia pulex) Algal toxicity: <14 ug/L 11-14 hour(s) MATC (Growth) Red algae (Champia parvula) Phyto toxicity: Not available Other toxicity: Not available	Highly toxic to aquatic life.	Not available	Not available

Section 13: Disposal Considerations

Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): U002. 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
Acetone	UN1090	3	II	3	5 kg or L	N/A	N/A

Canadian Transportation of Dangerous Goods

Shipping Name	UN Number	Class	Packing Group / Risk Group
Acetone	UN1090	3	II

Section 15: Regulatory Information

U.S. Regulations

CERCLA Sections	SARA 355.30	SARA 355.40
5000 LBS RQ	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

BD2

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=3 REACTIVITY=0

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