

Chemical Name: Acetone

Manufacturer: Fisher Chemicals

Container size: 4L

Location: VLA

Disposal: Place empty container in the trash. Give partial or full container to the safety officer.



Part of Thermo Fisher Scientific Material Safety Data Sheet

Creation Date 28-Apr-2009

Revision Date 07-Mar-2011

Revision Number 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product	Name
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Cat No.

Acetone

A9-4; A9-20; A9-200; A11-1; A11-4; A11-20; A11-200; A11S-4; A16F-1GAL; A16P-1GAL; A16P-4; A16S-4; A16S-20; A18-1; A18-4; A18-20; A18-200; A18-200LC; A18-500; A18CU1300; A18FB-19; A18FB-50; A18FB-115; A18FB-200; A18P-4; A18POP-19; A18POPB-50; A18RB-19; A18RB-50; A18RB-115; A18RB-200; A18RS-28; A18RS-50; A18RS-115; A18RS-200; A18S-4; A18SK-4; A18SS-19; A18SS-28; A18SS-50; A18SS-115; A18SS-200; A19-1; A19-4; A19RS-115; A19RS-200; A40-4; A928-4; A929-1; A929-4; A929RS-19; A929RS-50; A929RS-200; A946-4; A946-4LC; A946FB-200; A946RB-19; A946RB-50; A946RB-115; A946RB-200; A949-1; A949-4; A949CU-50; A949N-119; A949N-219; A949POP-19; A949RS-28; A949RS-50; A949RS-115; A949SK-1; A949SK-4; A949SS-19; A949SS-28; A949SS-50; A949SS-115; A949SK-1; BP2403-1; BP2403-4; BP2403-20; BP2404-1; BP2404-4; BP2404SK-1; BP2404SK-4; HC-300-1GAL; 22050131; 22050295

2-Propanone; Dimethyl ketone; (Certified ACS, HPLC, OPTIMA, Histological, Spectranalyzed,

Synonyms

Recommended Use

Laboratory chemicals

Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

NF/FCC/EP, Pesticide, Electronic, GC Resolv, SAFE-COTE)

2. HAZARDS IDENTIFICATION

DANGER!	2. HAZARDS IDENTIFICATION		
Emergency Overview Flammable liquid and vapor. Irritating to eyes and skin. May cause irritation of respiratory tract. Vapors may cause drowsiness and dizziness. Repeated exposure may cause skin dryness or cracking.			
Appearance Colorless	Physical State Liquid odor swe		
Target Organs	Central nervous system (CNS), Eyes, Respiratory system, Skin, Kidney, Liver, spleen		
Potential Health Effects			
Acute Effects Principle Routes of Exposure			
Eyes Skin	Irritating to eyes. Irritating to skin. May be harmful in contact with skin. Repeated exposure may cause skin dryness or cracking.		
Inhalation	Inhalation may cause central nervous system effects. May cause drowsiness and dizziness. May cause irritation of respiratory tract. May be harmful if inhaled.		
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmfu if swallowed.		
Chronic Effects	Experiments have shown reproductive toxicity effects on laboratory animals. May cause adverse liver effects. May cause adverse kidney effects.		
See Section 11 for additional Toxicolo	gical information.		
Aggravated Medical Conditions	Central nervous system disorders. Preexisting eye disorders. Skin disorders. Kidney disorders Liver disorders.		

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz				
Component		CAS-No	Weight %	
Acetone		67-64-1	>95	
	4. FIF	RST AID MEASURES		
Eye Contact	Rinse immediate medical attentior		e eyelids, for at least 15 minutes. Obtain	
Skin Contact	Wash off immed	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.		
Inhalation	Move to fresh air symptoms occur		. Get medical attention immediately if	
Ingestion	Do not induce vo	miting. Obtain medical attention.		
Notes to Physician	Treat symptomat	tically.		

5. FIRE-FIGHTING MEASURES

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Flash Point	-20°C / -4°F		
Method	No information available.		
Autoignition Temperature	465°C / 869°F		
Explosion Limits Upper Lower	12.8 vol % 2.5 vol %		
Suitable Extinguishing Media	CO ₂ , dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire with water spray.		
Unsuitable Extinguishing Media	Water may be ineffective		
Hazardous Combustion Products	No information available.		
Sensitivity to mechanical impact Sensitivity to static discharge	No information available. No information available.		

Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

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. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA	Health 1	Flammability 3	Instability 0	Physical hazards N/A

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges.
Environmental Precautions	Should not be released into the environment.
Methods for Containment and Clean Up	Remove all sources of ignition. Soak up with inert absorbent material. Take precautionary measures against static discharges. Keep in suitable, closed containers for disposal

7. HANDLING AND STORAGE

Handling	Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Use only non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharges.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammables area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetone	TWA: 500 ppm STEL: 750 ppm	(Vacated) TWA: 750 ppm (Vacated) TWA: 1800 mg/m ³ (Vacated) STEL: 2400 mg/m ³ (Vacated) STEL: 1000 ppm TWA: 1000 ppm TWA: 2400 mg/m ³	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m ³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Acetone	TWA: 500 ppm	TWA: 1000 ppm	TWA: 500 ppm
	TWA: 1190 mg/m ³	TWA: 2400 mg/m ³	STEL: 750 ppm
	STEL: 1000 ppm	STEL: 1260 ppm	
	STEL: 2380 mg/m ³	STEL: 3000 mg/m ³	

NIOSH IDLH: Immediately Dangerous to Life or Health

Personal Protective Equipment Eye/face Protection

Skin and body protection Respiratory Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Wear appropriate protective gloves and clothing to prevent skin exposure. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance odor **Odor Threshold** pН Vapor Pressure Vapor Density Viscosity Boiling Point/Range Melting Point/Range Decomposition temperature Flash Point **Evaporation Rate Specific Gravity** . Solubility log Pow **Molecular Weight** Molecular Formula

Liquid Colorless sweet No information available. No information available. 247 mbar @ 20 °C 2.0 (Air = 1.0) 0.32 mPa.s @ 20 °C 56°C / 132.8°F -95°C / -139°F > 4°C -20°C / -4°F 5.6 (Butyl Acetate = 1.0) 0.790 Soluble in water No data available 58.08 C3 H6 O

10. STABILITY AND REACTIVITY

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Stability	Stable under normal conditions.		
Conditions to Avoid	Incompatible products. Heat, flames and sparks.		
Incompatible Materials	Strong oxidizing agents, Strong reducing agents, Strong bases, Peroxides		
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), Formaldehyde, Methanol		
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions .	None under normal processing		

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Acetone	5800 mg/kg (Rat)	Not listed	Not listed	
Irritation	Irritating to eyes and skin			
Toxicologically Synergistic Products	Dibromochloromethane; N-r	Carbon tetrachloride; Chloroform; Trichloroethylene; Bromodichloromethane; Dibromochloromethane; N-nitrosodimethylamine; 1,1,2-Trichloroethane; Styrene; Acetonitrile, 2,5-Hexanedione; Ethanol; 1,2-Dichlorobenzene		
Chronic Toxicity				
Carcinogenicity	There are no known carcino	genic chemicals in this product		
ouremogeneity	There are no known baronie			
Sensitization	No information available.			
Mutagenic Effects	Mutagenic effects have occu	urred in experimental animals.		
Reproductive Effects	Experiments have shown re	productive toxicity effects on labo	ratory animals.	
Developmental Effects	Developmental effects have	occurred in experimental animals	S.	
Teratogenicity	Teratogenic effects have oc	curred in experimental animals		
Other Adverse Effects	The toxicological properties have not been fully investigated See actual entry in RTECS for complete information.			
Endocrine Disruptor Information	No information available			

12. ECOLOGICAL INFORMATION

Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Acetone	Not listed	Leuciscus idus: LC50 = 11300 mg/L/48h Salmo gairdneri: LC50 = 6100 mg/L/24h	EC50 = 14500 mg/L/15 min	EC50 = 39 mg/L/48h EC50 = 12700 mg/L/48h EC50 = 12600 mg/L/48h
Persistence and Degradability Readily biodegradable.				
Bioaccumulation/Accum	ulation No informat	ion available		
Mobility				

Component	log Pow
Acetone	-0.24

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Chemical 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.

Co	nponent	RCRA - U Series Wastes	RCRA - P Series Wastes
Aceto	าย - 67-64-1	U002	-

14. TRANSPORT INFORMATION

DOT

UN-No	UN1090
Proper Shipping Name	ACETONE
Hazard Class	3
Packing Group	II

TDG

UN-No	UN1090
Proper Shipping Name	ACETONE
Hazard Class	3
Packing Group	11
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IATA

UN-No	UN1090
Proper Shipping Name	ACETONE
Hazard Class	3
Packing Group	

14. TRANSPORT INFORMATION

IMDG/IMO

UN-No	UN1090
Proper Shipping Name	ACETONE
Hazard Class	3
Packing Group	11

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Acetone	Х	Х	-	200-662-	-		Х	Х	Х	Х	Х
				2							

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA

Not applicable

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Acetone	5000 lb	-

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Acetone	Х	Х	Х	-	Х

U.S. Department of Transportation

Reportable Quantity (RQ):YDOT Marine PollutantNDOT Severe Marine PollutantN

U.S. Department of Homeland Security

This product contains the following DHS chemicals:

Component	DHS Chemical Facility Anti-Terrorism Standard
Acetone	2000 lb STQ

Other International Regulations

Mexico - Grade

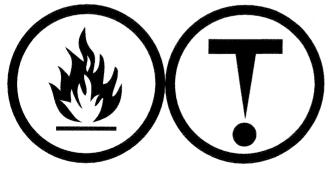
Serious risk, Grade 3

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class B2 Flammable liquid

D2B Toxic materials



16. OTHER INFORMATION

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
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Revision Summary	"***", and red text indicates revision

Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of MSDS