

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 29/12/2010

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Version: 3.0

CLM-1306

SECTION 1: Identification of the su	ibstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: ACETONE (1,3-13C2, 99%)
EC index no	: 606-001-00-8 (Unlabeled)
EC no	: 200-662-2 (Unlabeled)
CAS No	: 7217-25-6
REACH registration No	: 01-2119471330-49
Product code	: CLM-1306
Formula	: *CH3CO*CH3
1.2. Relevant identified uses of the sul	ostance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
ndustrial/Professional use spec	: For professional use only.
I.2.2. Uses advised against	
No additional information available	
I.3. Details of the supplier of the safet	u data abaat
Cambridge Isotope Laboratories, Inc.	y data sheet
50 Frontage Road	
Andover, MA 01810	
USA	
USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com www.isotope.com	
Emergency telephone number	
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hours)	
International: 1-703-741-5970 (24 hours)	
SECTION 2: Hazards identification	
2.1. Classification of the substance or	mixture
Classification according to Regulation (EC) Flam. Liq. 2 H225	NO. 12/2/2008 [CLP]
Eye Irrit. 2 H319	
STOT SE 3 H336	
Full text of H-phrases: see section 16	
Classification according to Directive 67/548	/FEC or 1999/45/EC
F; R11	
Xi; R36	
R67	
Full text of R-phrases: see section 16	
Classification (CLIC LIC)	
Classification (GHS-US) Flam. Liq. 2 H225	

Eye Irrit. 2A H319 STOT SE 3 H336

Adverse physicochemical, human health and environmental effects

Liver, Kidney. Skin.

Safety Data Sheet

2.2. Label elements	
Labeling according to Regulation (EC)	No. 1373/2008 [CL B]
Hazard pictograms (CLP)	
	GHS02 GHS07
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapor H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P261 - Avoid breathing dust, fume, gas, mist, spray, vapors P264 - Wash Both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective clothing, protective gloves
EUH phrases	: EUH066 - Repeated exposure may cause skin dryness or cracking
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS02 GHS07
Signal word (GHS-US) Hazard statements (GHS-US)	 Danger H225 - Highly flammable liquid and vapor H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness
Precautionary statements (GHS-US)	 P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P261 - Avoid breathing dust, fume, gas, mist, spray, vapors P264 - Wash Both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective clothing, protective gloves P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortat for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove conta lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER/doctor/physician if you feel unwell P337+P313 - If eye irritation persists: Get medical advice/attention

Other hazards No additional information available

SECTION 3: Composition/information on ingredients

3.1. **Substances**

2.3.

spray for extinction

P405 - Store locked up

P403+P233 - Store in a well-ventilated place. Keep container tightly closed P403+P235 - Store in a well-ventilated place. Keep cool

P501 - Dispose of contents/container to Comply with applicable regulations.

Name	Product identifier	%	Classification according to Directive 67/548/EEC
ACETONE (1,3-13C2, 99%) (Main constituent)	(CAS No) 7217-25-6 (EC no) 200-662-2 (Unlabeled) (EC index no) 606-001-00-8 (Unlabeled) (REACH-no) 01-2119471330-49	100	F; R11 Xi; R36 R67
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ACETONE (1,3-13C2, 99%) (Main constituent)	(CAS No) 7217-25-6 (EC no) 200-662-2 (Unlabeled) (EC index no) 606-001-00-8 (Unlabeled) (REACH-no) 01-2119471330-49	100	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of R-, H- and EUH-phrases: see section 16

Name	Product identifier	%	Classification (GHS-US)
ACETONE (1,3-13C2, 99%) (Main constituent)	(CAS No) 7217-25-6	100	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

Full text of H-phrases: see section 16

3.2. Mixtures	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation	 Move out of dangerous area. Consult a physician and show this safety data sheet. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
First-aid measures after skin contact	: Wash with soap and water. Get medical attention if irritation develops or persists.
First-aid measures after eye contact	: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries	: Harmful if swallowed, inhaled or absorbed through skin.
Symptoms/injuries after inhalation	: Harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.
Symptoms/injuries after skin contact	: Harmful if absorbed through skin. Prolonged or repeated contact can result in drying of the skin which may result in skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: Harmful if swallowed.
4.3. Indication of any immediate medica	I attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
5.2. Special hazards arising from the su	bstance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Wear self contained breathing apparatus for fire fighting if necessary.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Use water spray to cool unopened containers.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
6.1.2. For emergency responders	

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according		
6.2.	Environmental precautions	
Preven	t further leakage or spillage if safe to do	o so. Do not let product enter drains.
6.3.	Methods and material for containment and cleaning up	
Method	ls for cleaning up	: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet- brushing and place in container for disposal according to local regulations.
6.4.	Reference to other sections	
No additional information available		
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precau	tions for safe handling	: Keep away from sources of ignition - No smoking. Use explosion-proof equipment. Avoid contac with skin and eyes. Avoid inhalation of vapour or mist. Take precautionary measures against static discharge.
Hygien	e measures	: Wash hands before eating and wash before reuse.
7.2.	Conditions for safe storage, inclue	ding any incompatibilities
Techni	cal measures	: Keep container tightly closed in a cool, dry and well-ventilated place.
Storage	e conditions	: Store at room temperature away from light and moisture.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters		
ACETONE (1,3-13C2, 99%) (7	7217-25-6)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	500.000000000 ppm Central Nervous System impairment. Hematologic effects. Upper Respiratory Tract irritation. Eye irritation. Adopted values or notations enclosed are those for which changes are proposed in the NIC. See Notice of Intended Changes (NIC). Substances for which there is a Biological Exposure Index or Indices (see BEI section). Not classifiable as a human carcinogen.
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	750.000000000 ppm Central Nervous System impairment. Hematologic effects. Upper Respiratory Tract irritation. Eye irritation. Adopted values or notations enclosed are those for which changes are proposed in the NIC. See Notice of Intended Changes (NIC). Substances for which there is a Biological Exposure Index or Indices (see BEI section). Not classifiable as a human carcinogen.
Italy - Portugal - USA ACGIH	Remark (ACGIH)	TWA 250 ppm Central Nervous System impairment. Upper Respiratory Tract irritation. Eye irritation. 2015 Adoption. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Not classifiable as a human carcinogen. Acetone 50.0000 mg/l Urine ACGIH - Biological Exposure Indices (BEI) Remarks: End of shift (As soon as possible after exposure ceases). Acetone 25 mg/l Urine ACGIH - Biological Exposure Indices (BEI) Remarks: End of shift (As soon as possible after exposure ceases).
USA NIOSH	NIOSH REL (TWA) (mg/m3)	590 mg/m³
USA NIOSH	NIOSH REL (TWA) (ppm)	250 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m3)	1780 mg/m ³ California permissible exposure limits for chemical contaminants. (Title 8, Article 107)
USA NIOSH	NIOSH REL (STEL) (ppm)	750 ppm California permissible exposure limits for chemical contaminants. (Title 8, Article 107)
USA NIOSH	NIOSH REL (ceiling) (ppm)	3000 ppm California permissible exposure limits for chemical contaminants. (Title 8, Article 107)
USA NIOSH	Remark (US NIOSH)	PEL 500 ppm; 1,200 mg/m3 California permissible exposure limits for chemical contaminants. (Title 8, Article 107)
USA OSHA	OSHA PEL (TWA) (mg/m3)	2400 mg/m ³ The value in mg/m3 is approximate.
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

ACETONE (1,3-13C2, 99%) (7217-25-6)		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	2420 mg/m ³	
Long-term - systemic effects, dermal	186 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	1210 mg/m ³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	62 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	200 mg/m ³	
Long-term - systemic effects, dermal	62 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	10.6 mg/l	
PNEC aqua (marine water)	1.06 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	30.4 mg/kg dwt	
PNEC sediment (marine water)	3.04 mg/kg dwt	
PNEC (Soil)		
PNEC soil	33.3 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	100 mg/l	
8.2. Exposure controls		
Appropriate engineering controls	 Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. 	
Personal protective equipment	: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.	
	THE REAL	

Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: Wear appropriate NIOSH/MSHA approved respirator.

: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Environmental exposure controls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Appearance	: Liquid, clear.
Molecular mass	: 60.06 g/mol (Labeled)
Color	: Colourless.
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -94 °C (-137 °F)
Freezing point	: No data available
Boiling point	: 56 °C (133 °F) at 1,013 hPa (760 mmHg)
Flash point	: -17.0 °C (1.4 °F) - closed cup
Self ignition temperature	: 465 °C (869 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 533.3 hPa (400 mmHg) at 39.5 °C (103.1 °F); 245.3 hPa (184 mmHg) at 20 °C (68 °F)
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.791 g/ml at 25 °C (77 °F)
Solubility	: Water: Completely miscible
Log Pow	: -0.24
40/07/0040	

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Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: 2 - 13 % (V)
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable if stored under recommended conditions.	
10.3. Possibility of hazardous reactions	
Vapours may form explosive mixture with air.	
10.4. Conditions to avoid	
Heat, flames and sparks.	
10.5. Incompatible materials	
Bases, Oxidizing agents, Reducing agents. Read	cts violently with phosphorous oxychloride.
10.6. Hazardous decomposition products	3
carbon oxides.	
SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
ACETONE (1,3-13C2, 99%) (7217-25-6)	
LD50 oral rat	5800 mg/kg Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Tremor. Behavioral: Headache. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
LD50 dermal	7426 mg/kg Guinea pig
LC50 inhalation rat (mg/l)	50100 mg/m ³ 8 h Remarks: Drowsiness, Dizziness, Unconsciousness
ATE (oral)	5800.000 mg/kg body weight
ATE (vapors)	50.100 mg/l/4h
ATE (dust, mist)	50.100 mg/l/4h
Skin corrosion/irritation	: Skin - rabbit - Mild skin irritation - 24 h
Serious eye damage/irritation	: Eyes - Rabbit Result: Eye irritation - 24 h (OECD Test Guideline 405)
Respiratory or skin sensitization	: Guinea pig Result: Does not cause skin sensitisation.
Germ cell mutagenicity	No data available
Germ cell mutagenicity Carcinogenicity	No data available : Not available.
Germ cell mutagenicity Carcinogenicity	No data available
• •	No data available : Not available. : This product is or contains a component that is not classifiable as to its carcinogenicity on its
Carcinogenicity	No data availableNot available.This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification.
Carcinogenicity Reproductive toxicity	 No data available Not available. This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification. Not available.
Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	 No data available Not available. This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification. Not available. May cause drowsiness or dizziness. Not classified No data available
Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard	 No data available Not available. This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification. Not available. May cause drowsiness or dizziness. Not classified No data available Not classified Not classified Not classified
Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	 No data available Not available. This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification. Not available. May cause drowsiness or dizziness. Not classified No data available
Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard Potential Adverse human health effects and	 No data available Not available. This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification. Not available. May cause drowsiness or dizziness. Not classified No data available Not classified Not classified To the best of our knowledge, the chemical, physical, and toxicological properties have not beet thoroughly investigated. Kidney - irregularities - Based on Human Evidence. Skin - Dermatitis -
Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard Potential Adverse human health effects and symptoms	 No data available Not available. This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification. Not available. May cause drowsiness or dizziness. Not classified No data available Not classified Not classified Not classified To the best of our knowledge, the chemical, physical, and toxicological properties have not beet thoroughly investigated. Kidney - irregularities - Based on Human Evidence. Skin - Dermatitis - Based on Human Evidence. Harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and
Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard Potential Adverse human health effects and symptoms Symptoms/injuries after inhalation	 No data available Not available. This product is or contains a component that is not classifiable as to its carcinogenicity on its IARC, ACGIH, NTP, or EPA classification. Not available. May cause drowsiness or dizziness. Not classified No data available Not classified Not classified Not classified To the best of our knowledge, the chemical, physical, and toxicological properties have not beet thoroughly investigated. Kidney - irregularities - Based on Human Evidence. Skin - Dermatitis - Based on Human Evidence. Harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness. Harmful if absorbed through skin. Prolonged or repeated contact can result in drying of the ski

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SECTION 12: Ecological information	
12.1. Toxicity	
ACETONE (1,3-13C2, 99%) (7217-25-6)	
LC50 fish 1	5540.00 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 1	8800 mg/l Daphnia magna (Water flea) - 48 h
·	
12.2. Persistence and degradability	
ACETONE (1,3-13C2, 99%) (7217-25-6)	
Biodegradation	91 % Readily biodegradable.
12.3. Bioaccumulative potential	· · ·
ACETONE (1,3-13C2, 99%) (7217-25-6)	
Log Pow	-0.24
	-0.24
12.4. Mobility in soil	
ACETONE (1,3-13C2, 99%) (7217-25-6)	
Ecology - soil	Not available.
12.5. Results of PBT and vPvB assessme	ent
No additional information available	
12.6. Other adverse effects	
Other adverse effects	: Not available.
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.
Waste disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Ecology - waste materials	: Dispose of as unused product.
SECTION 14: Transport information	
In accordance with ADR / RID / ADNR / IMDG /	
14.1. UN number	
UN-No.(DOT)	: 1090
DOT NA no.	UN1090
	011000
14.2. UN proper shipping name	
DOT Proper Shipping Name	: Acetone
Department of Transportation (DOT) Hazard Classes	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid
Packing group (DOT)	: II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal
	TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CER 173 yvv)	TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a$ (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx)	 TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	 TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. 150 202
	 TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. 150
DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)	 TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. 150 202 242

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14.3. Additional information	
Other information	: No supplementary information available.
Overland transport	
Packing group (ADR)	: 11
Class (ADR)	: 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 33
Classification code (ADR)	: F1
Danger labels (ADR)	: 3 - Flammable liquids
Orange plates	33 1090
Tunnel restriction code	: D/E
Limited quantities (ADR)	1L
EAC	: •2YE
Excepted quantities (ADR)	: E2
Transport by sea	
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
MFAG-No	: 127
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
Civil Aeronautics Law	: Flammable liquids
14.4. Environmental hazards	
Other information	: No supplementary information available.
14.5. Special precautions for user	
14.6. Transport in bulk according to Anne	x II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
ACETONE (1 2 12C2 000/) (7217 25 6)	

ACETONE (1,3-13C2, 99%) (7217-25-6)	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

15.2. International regulations

CANADA

ACETONE (1,3-13C2, 99%) (7217-25-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

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15.2.1. National regulations

No additional information available

15.3. US State regulations	
ACETONE (1,3-13C2, 99%)(7217-25-6)	
State or local regulations	U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases::

Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
R11	Highly flammable
R36	Irritating to eyes
R67	Vapors may cause drowsiness and dizziness
F	Highly flammable
Xi	Irritant

NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 3 - Liquids and solids that can be ignited under almost all ambient conditions.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard
Physical	: 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product