

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/01/2011 Revision date: 14/06/2021 Supersedes: 21/06/2017

CLM-1584

Version: 4.0

SECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: ACETOPHENONE (METHYL-13C, 99%)
EC Index-No.	: 606-042-00-1
EC-No.	: 202-708-7 (Unlabeled)
CAS-No.	: 71777-36-1
REACH registration No	: 01-2119533169-37
Product code	: CLM-1584
Formula	: C6H5CO*CH3
Synonyms	: Methyl phenyl ketone
1.2. Relevant identified uses of the	substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
Industrial/Professional use spec	: For professional use only
1.2.2. Uses advised against No additional information available	
1.3. Details of the supplier of the same	afety data sheet
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA USA: 1-800-322-1174 Int: 1-978-749-80	00
<u>cilsales@isotope.com</u> 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 identificati	on
2.1. Classification of the substance	e or mixture
Classification according to Regulation (Acute Tox. 4 (Oral) H302 Eye Dam. 1 H318	EC) No. 1272/2008 [CLP]
Full text of hazard classes and H-statemen	its : see section 16
Classification according to Directive 67/ Xn; R22 Xi; R41	'548/EEC [DSD] or 1999/45/EC [DPD]
Full text of R-phrases: see section 16	
GHS-US classification	
Flam. Liq. 4H227Acute Tox. 4 (Oral)H302Eye Dam. 1H318	
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

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2. Label elements	
abeling according to Regulation (EC) I	No. 1272/2008 [CLP]
azard pictograms (CLP)	
gnal word (CLP)	GHS05 GHS07 : Danger
azard statements (CLP)	: H302 - Harmful if swallowed H318 - Causes serious eye damage
recautionary statements (CLP)	 P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective clothing, protective gloves. P301+P312 - IF SWALLOWED: Call a doctor if you feel unwell. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a doctor. P330 - Rinse mouth. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
HS-US labeling	
azard pictograms (GHS-US)	GHS05 GHS07
gnal word (GHS-US)	: Danger
azard statements (GHS-US)	: H227 - Combustible liquid H302 - Harmful if swallowed H318 - Causes serious eye damage
recautionary statements (GHS-US)	 P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective clothing, protective gloves. P301+P312 - If swallowed: Call a doctor if you feel unwell P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a doctor P330 - Rinse mouth. P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), D-powder to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
2 Other hererde	

2.3. **Other hazards**

No additional information available

SECTION 3: Composition/Information on i	ingredients
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3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
ACETOPHENONE (METHYL-13C, 99%)	(CAS-No.) 71777-36-1 (EC-No.) 202-708-7 (Unlabeled) (EC Index-No.) 606-042-00-1 (REACH-no) 01-2119533169-37	100	Xn; R22 Xi; R41
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ACETOPHENONE (METHYL-13C, 99%)	(CAS-No.) 71777-36-1 (EC-No.) 202-708-7 (Unlabeled) (EC Index-No.) 606-042-00-1 (REACH-no) 01-2119533169-37	100	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

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

Name	Product identifier	%	GHS-US classification
ACETOPHENONE (METHYL-13C, 99%) (Main constituent)	(CAS-No.) 71777-36-1	100	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

Full text of H-phrases: see section 16

3.2. **Mixtures**

Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measure	ls
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.
First-aid measures after eye contact	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate me	dical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	es
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
5.2. Special hazards arising from th	e substance or mixture
No additional information available	
5.3. Advice for firefighters	: Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing
Firefighting instructions	apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.
Other information	: Use water spray to cool exposed surfaces.
SECTION 6: Accidental release n	neasures
	/e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Use personal protective equipment as required. Avoid breathing vapors, mist, gas. Avoid dust formation. Ensure adequate air ventilation. Remove all sources of ignition. Evacuate danger area. Evacuate unnecessary personnel.
6.1.2. For emergency responders No additional information available	
6.2. Environmental precautions	
Prevent entry to sewers and public waters.	Do not allow to enter drains or water courses. Avoid release to the environment.
6.3. Methods and material for conta	inment and cleaning up
For containment	: Contain large spillage with sand or earth. Small quantities of liquid spill: take up in non- combustible absorbent material and shovel into container for disposal.
Methods for cleaning up	: This material and its container must be disposed of in a safe way, and as per local legislation.
6.4. Reference to other sections	
No additional information available	
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SECTION 7	: Handling and storage	
7.1. Prec	autions for safe handling	
Precautions for safe handling : Provide adequate ventilation to minimize dust and/or vapor concentrations.		
Hygiene measu	ures	: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.
7.2. Conc	ditions for safe storage, includir	g any incompatibilities
Technical meas	sures	: Store in a well-ventilated place. Keep container tightly closed.

Storage conditions

: Store at room temperature away from light and moisture.

Specific end use(s) 7.3.

No additional information available

SECTION 8: Exposure controls/personal protection					
8.1. Control parameters					
ACETOPHENONE (METHYL-	ACETOPHENONE (METHYL-13C, 99%) (71777-36-1)				
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	10.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)			
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Central Nervous System impairment, Upper Respiratory Tract irritation, Pregnancy loss			
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	49 mg/m ³ California permissible exposure limits for chemical contaminants (Title 8, Article 107)			
USA OSHA	OSHA PEL (Ceiling) (ppm)	10 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)			
USA OSHA	Remark (OSHA)	Component: Acetophenone; CAS-NO: 98-86-2; Value:TWA; Control Parameters: 10 ppm; Basis: USA. Workplace Environmental Exposure Levels (WEEL)			

8.2. **Exposure controls**

Appropriate engineering controls

Personal protective equipment

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear eye protection. Chemical goggles or face shield with safety glasses.
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties	
Physical state	: Liquid
Appearance	: Liquid, clear
Molecular mass	: 121.14 g/mol (Labeled)
Color	: Colorless to light yellow
Odor	: No data available.
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 19 - 20 °C (66 - 68 °F) - lit.
Freezing point	: No data available
Boiling point	: 202 °C (396 °F) - lit.
Flash point	: 76 °C (169 °F) - closed cup
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available

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Vapor pressure	: 1 hPa (1 mmHg) at 15 °C (59 °F)
Relative vapor density at 20 °C	: 4.15 - (Air = 1.0)
Relative density	: No data available
Specific gravity / density	: 1.03 g/ml at 25 °C (77 °F)
Solubility	: No data available
Log Pow	: 1.6
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
Explosion limits	: 1.4 - 5.2 vol %

Other information 9.2. No additional information available

SECTION 10): Stability and reactivity
10.1. React	tivity
No additional in	formation available
10.2. Chem	nical stability
Stable if stored	under recommended conditions.
10.3. Possi	ibility of hazardous reactions
No additional in	formation available
10.4. Cond	itions to avoid
Heat. Open flam	ne. Sparks.
10.5. Incon	npatible materials
Strong oxidizing	agents. Strong bases. Strong reducing agents.
10.6. Hazar	rdous decomposition products

Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1.	Information on	toxicological	effects

Acute toxicity	ral: Harmful if swallowed.	
ACETOPHENONE (METHYL-13C, 99%) (71777-36-1)		
LD50 oral rat	15 mg/kg	
LD50 dermal rabbit	6329 mg/kg	
ATE CLP (oral)	00.000 mg/kg body weight	
Skin corrosion/irritation	kin – Rabbit - Result: mild skin irritation. (Draize Test)	
Serious eye damage/irritation	yes – Rabbit - Severe eye irritation	
Respiratory or skin sensitization	ot classified	
Germ cell mutagenicity	amster Lungs Cytogenetic analysis	
Carcinogenicity	ot classified	
Reproductive toxicity	ot classified	
Specific target organ toxicity – single exposure	ot classified	
Specific target organ toxicity – repeated exposure	ot classified	
Aspiration hazard	ot classified	
Potential Adverse human health effects and symptoms	his information is based on our current knowledge and is intended to describe the ne purposes of health, safety and environmental requirements only. It should not the postrued as guaranteeing any specific property of the product. Harmful if swallower	herefore be
Symptoms/effects after inhalation	lay be harmful if inhaled. May cause respiratory irritation.	
Symptoms/effects after skin contact	lay be harmful in contact with skin. May cause moderate irritation.	
Symptoms/effects after eye contact	auses serious eye damage.	
Symptoms/effects after ingestion	armful if swallowed. Swallowing a small quantity of this material will result in serio azard.	ous health

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Ecology - general : The product is not considered hamful to aquatic organisms or to cause long-term adverse of the adversement. ACETOPHENONE (METHYL-13C, 99'c) (71777-36-1) 162 mgl - Plinephales promelas (fathead minnow) - 96 h 12.2. Persistence and dogradability Vo additional information available 12.3. Bioaccumulative potential ACETOPHENONE (METHYL-13C, 99'c) (71777-36-1) Log Pow 1.6 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPVB assessment No additional information available 12.6. Other adverse effects No additional information available 12.6. Other adverse effects SECTION 140 Signaps (Signaps) 13.1. Waste treatment methods environmental control regulations 13.1. Waste treatment methods Disposal control (Adverse) 14.1. UN duration available SECTION 142 Transport Information 15.2. Other adverse effects Disposal control (Adverse) 16.3. Underse materials Disposal control (Adverse) 17.4. UN duration (waste) I Waste materials should be disposal of under conditions which meet Federal. State, and loca environmental control regulations 17.4. UN duration available Disposal control (Adverse) 18.1. UN duration available Section 11 (Signaps)	SECTION 12: Ecological information	
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Log Pow 1.6 12.4. Mobility in soil No additional information available No additional information available 12.5. Results of PBT and VPVB assessment No additional information available No additional information available SECTION 13: Disposal considerations Sections Segional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and loca environmental control regulations. Product/Packaging disposal recommendations : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a license professional waste disposal service to dispose of this material. Ecology - waste materials : Dispose of as unused product. SECTION 14: Transport information Information available In accordance with ADR / RID / IMDG / IATA / ADN Intervention and product. SECTION 14: Transport information UN3334 UN-No.(DOT) : 3334 UDT Na.no. UN3334 UDT Na no. : Aviation regulated liquid, n.o.s. Class (DOT) : 9 - Class 9 (Miscellaneous dangerous material 49 CFR 173.140 Startial is regulated as a hazardous material only when transported by air, G - Identifies PSN requiring a technical name DOT Symbols : A - Materinal is regulated as a	12.3. Bioaccumulative potential	
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Special transport precautions : Not classified as dangerous in the meaning of transport regulations. Overland transport : 9 - Miscellaneous dangerous substances and articles	Emergency Response Guide (ERG) Number	: 171
Overland transport Class (ADR) : 9 - Miscellaneous dangerous substances and articles	Other information	: No supplementary information available.
Class (ADR) : 9 - Miscellaneous dangerous substances and articles	Special transport precautions	: Not classified as dangerous in the meaning of transport regulations.
14/06/2021 EN (English US) 6	Overland transport Class (ADR)	: 9 - Miscellaneous dangerous substances and articles
	14/06/2021	EN (English US) 6/

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Classification code (ADR)	: M11
EAC	: 2Z
Transport by sea	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
MFAG-No	: 171
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 450 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 450 L
Civil Aeronautics Law	: Miscellaneous dangerous substances & articles
14.4. Environmental hazards	
Other information	: No supplementary information available.
14.5. Special precautions for user	
Special transport precautions	: Not classified as dangerous in the meaning of transport regulations.

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

SECTION 15: Regulatory information		
15.1. US Federal regulations		
ACETOPHENONE (METHYL-13C, 99%) (71777-	36-1)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard	
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313	

15.2. International regulations

CANADA

ACETOPHENONE (METHYL-13C, 99%) (71777-36-1)

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

ACETOPHENONE (METHYL-13C, 99%)(71777-36-1)		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List	

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:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

H302	Harmful if swallowed
H318	Causes serious eye damage
R22	Harmful if swallowed
R41	Risk of serious damage to eyes
Xi	Irritant
Xn	Harmful

	 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury. 2 - Materials that must be moderately heated or exposed to
	relatively high ambient temperatures before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 2 Moderate Hazard
Physical	: 0 Minimal Hazard

CIL Substance 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