

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: 17/05/2022 Supersedes: 15/09/2016 Version: 4.0 DLM-1557

SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Substance	
Substance name	: ACETOPHENONE (RING-D5, 98%)	
EC Index-No.	: 606-042-00-1(Unlabeled)	
EC-No.	: 202-708-7(Unlabeled)	
CAS-No.	: 28077-64-7	
REACH registration No	: 01-2119533169-37	
Product code	: DLM-1557	
Formula	: C6D5COCH3	
Synonyms	: Methyl phenyl ketone	
1.2. Relevant identified uses of the substa	ance 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 safety da	ata sheet	
Cambridge Isotope Laboratories, Inc. 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 mix	xture	
Classification according to Regulation (EC) No	1272/2008 [CLP]	
Acute Tox. 4 (Oral) H302		
Eye Dam. 1 H318		
Full text of hazard classes and H-statements : see section 16		
Classification according to Directive 67/549/EEC (DSD) or 1990/45/EC (DBD)		
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Xn; R22		
Xi; R41 Full text of R-phrases: see section 16		
GHS-US classification		
Flam. Liq. 4 H227 Acute Tox. 4 (Oral) H302		
Eye Dam. 1 H318		

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements Labeling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS05 GHS07 Signal word (CLP) : Danger Hazard statements (CLP) : H302 - Harmful if swallowed H318 - Causes serious eye damage P264 - Wash hands thoroughly after handling. Precautionary statements (CLP) 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 Comply with applicable regulations **GHS-US** labeling Hazard pictograms (GHS-US) GHS05 GHS07 Signal word (GHS-US) : Danger Hazard statements (GHS-US) : H227 - Combustible liquid H302 - Harmful if swallowed H318 - Causes serious eye damage Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking. P264 - Wash Both hands 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 poison center or 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 poison center or doctor P330 - Rinse mouth. P370+P378 - In case of fire: Use Hazard pictograms (CLP) to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to Comply with applicable regulations

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information	on on ingredients		
3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
ACETOPHENONE (RING-D5, 98%)	(CAS-No.) 28077-64-7 (EC-No.) 202-708-7(Unlabeled) (EC Index-No.) 606-042-00-1(Unlabeled) (REACH-no) 01-2119533169-37	100	Xn; R22 Xi; R41
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ACETOPHENONE (RING-D5, 98%)	(CAS-No.) 28077-64-7 (EC-No.) 202-708-7(Unlabeled) (EC Index-No.) 606-042-00-1(Unlabeled) (REACH-no) 01-2119533169-37	100	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

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

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Name	Product identifier	%	GHS-US classification
ACETOPHENONE (RING-D5, 98%) (Main constituent)	(CAS-No.) 28077-64-7	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

Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
First-aid measures after inhalation	: If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
First-aid measures after skin contact	: Wash off with soap and plenty of water. Consult a physician.
First-aid measures after eye contact	: Flush eye with water for 15 minutes. Get medical attention.
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 effect	s, both acute and delayed
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/effects after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Harmful if swallowed.
4.3. Indication of any immediate medical	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 sub	stance or mixture
Fire hazard	: Combustible liquid.
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.
SECTION 6: Accidental release meas	
6.1. Personal precautions, protective equ	upment 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 No additional information available	
6.2. Environmental precautions	
Prevent further leakage or spillage if safe to do so	b. Do not let product enter drains. Discharge into the environment must be avoided.
6.3. Methods and material for containme	nt and cleaning up
For containment	: 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.
Methods for cleaning up	: For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent build up of electrostatic charge.

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Hygien	e measures	landle in accordance with good industrial hygiene and safety practice. Wash hands before reaks and at the end of workday.	ore
7.2.	Conditions for safe storage, includi	iy incompatibilities	
Techni	cal measures	eep 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** ACETOPHENONE (RING-D5, 98%) (28077-64-7) Italy - Portugal - USA ACGIH ACGIH TWA (ppm) 10.0000000 ppm USA. ACGIH Threshold Limit Values (TLV). Remarks-Central Nervous System impairment Upper Respiratory Tract irritation Pregnancy loss. USA OSHA OSHA PEL (TWA) (ppm) 10 ppm USA. Workplace Environmental Exposure Levels (WEEL) USA OSHA OSHA PEL (Ceiling) (mg/m³) 49 mg/m³ 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)

8.2. Exposure controls

Personal protective equipment

: Gloves. Safety glasses. Protective clothing. Respiratory protection of the dependent type.



Hand protection	: protective 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	: When appropriate, use NIOSH/CEN approved respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Appearance	: Clear, Liquid
Molecular mass	: 125.18 g/mol (Labeled)
Color	: Colorless
Odor	: No data available
Odor threshold	: No data available
рН	: 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
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

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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 % (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	
No additional information available	
10.4. Conditions to avoid	
Heat, flames and sparks.	
10.5. Incompatible materials	
Strong oxidizing agents, Strong bases, Strong rec	lucing agents.
10.6. Hazardous decomposition products	
Hazardous decomposition products formed under	fire conditions - Carbon ovides
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity	: Oral: Harmful if swallowed.
Acute toxicity ACETOPHENONE (RING-D5, 98%) (28077-64-	7)
Acute toxicity ACETOPHENONE (RING-D5, 98%) (28077-64- LD50 oral rat	7) 815 mg/kg
Acute toxicity ACETOPHENONE (RING-D5, 98%) (28077-64- LD50 oral rat LD50 dermal rabbit	7) 815 mg/kg 16329 mg/kg
Acute toxicity ACETOPHENONE (RING-D5, 98%) (28077-64- LD50 oral rat LD50 dermal rabbit ATE CLP (oral)	7) 815 mg/kg 16329 mg/kg 815.000 mg/kg body weight
Acute toxicity ACETOPHENONE (RING-D5, 98%) (28077-64- LD50 oral rat LD50 dermal rabbit ATE CLP (oral) ATE CLP (dermal)	7) 815 mg/kg 16329 mg/kg 815.000 mg/kg body weight 16329.000 mg/kg body weight
Acute toxicity ACETOPHENONE (RING-D5, 98%) (28077-64- LD50 oral rat LD50 dermal rabbit ATE CLP (oral) ATE CLP (dermal) Skin corrosion/irritation	7) 815 mg/kg 16329 mg/kg 815.000 mg/kg body weight 16329.000 mg/kg body weight : Skin - Rabbit Result: Mid skin irritation. (Draize Test)
Acute toxicity ACETOPHENONE (RING-D5, 98%) (28077-64- LD50 oral rat LD50 dermal rabbit ATE CLP (oral) ATE CLP (dermal) Skin corrosion/irritation Serious eye damage/irritation	7) 815 mg/kg 16329 mg/kg 815.000 mg/kg body weight 16329.000 mg/kg body weight : Skin - Rabbit Result: Mid skin irritation. (Draize Test) : Eyes - Rabbit Result: Severe eye irritaiton
Acute toxicity ACETOPHENONE (RING-D5, 98%) (28077-64- LD50 oral rat LD50 dermal rabbit ATE CLP (oral) ATE CLP (dermal) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	7) 815 mg/kg 16329 mg/kg 815.000 mg/kg body weight 16329.000 mg/kg body weight : Skin - Rabbit Result: Mid skin irritation. (Draize Test) : Eyes - Rabbit Result: Severe eye irritation : Not classified
Acute toxicity ACETOPHENONE (RING-D5, 98%) (28077-64- LD50 oral rat LD50 dermal rabbit ATE CLP (oral) ATE CLP (dermal) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	7) 815 mg/kg 16329 mg/kg 815.000 mg/kg body weight 16329.000 mg/kg body weight : Skin - Rabbit Result: Mid skin irritation. (Draize Test) : Eyes - Rabbit Result: Severe eye irritaiton : Vot classified : Hamster Lungs Cytogenetic analysis
Acute toxicity ACETOPHENONE (RING-D5, 98%) (28077-64- LD50 oral rat LD50 dermal rabbit ATE CLP (oral) ATE CLP (dermal) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	7) 815 mg/kg 16329 mg/kg 815.000 mg/kg body weight 16329.000 mg/kg body weight : Skin - Rabbit Result: Mid skin irritation. (Draize Test) : Eyes - Rabbit Result: Severe eye irritaiton : Not classified : Hamster Lungs Cytogenetic analysis : Not classified
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Acute toxicity ACETOPHENONE (RING-D5, 98%) (28077-64- LD50 oral rat LD50 dermal rabbit ATE CLP (oral) ATE CLP (dermal) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure Aspiration hazard Potential Adverse human health effects and symptoms/effects after inhalation	7) 815 mg/kg 16329 mg/kg 815.000 mg/kg body weight 16329.000 mg/kg body weight

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general :	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
ACETOPHENONE (RING-D5, 98%) (28077-64-7	
LC50 fish 1	162 mg/l Pimephales promelas (fathead minnow) - 96 h

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12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
ACETOPHENONE (RING-D5, 98%) (28077-64	
Log Pow	1.6
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessme	nt
No additional information available	
12.6. Other adverse effects	
Other adverse effects	: Avoid release to the environment. Disposal must be done according to official regulations.
	. Avoid release to the environment. Disposal must be done according to official regulations.
SECTION 13: Disposal consideration	IS
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.
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed
Ecology waste metericle	professional waste disposal service to dispose of this material.
Ecology - waste materials	: Dispose as unused product.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / A	DN
14.1. UN number	
UN-No.(DOT)	: 3334
DOT NA no.	UN3334
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Aviation regulated liquid, n.o.s.
Class (DOT)	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)
	e
DOT Symbols	: A - Material is regulated as a hazardous material only when transported by air,G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	: A35 - This includes any material which is not covered by any of the other classes but which has
	an anesthetic, narcotic, noxious or other similar properties such that, in the event of spillage or
	leakage on an aircraft, extreme annoyance or discomfort could be caused to crew members so
DOT Deckoping Exceptions (40.05D 470	as to prevent the correct performance of assigned duties.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 204 : 5000 lbc
DOT RQ Marine pollutant	: 5000 lbs : No
Marine pollutant	. INU
14.3. Additional information	
Other information	: No supplementary information available.
Special transport precautions	: DOT/IMDG/IATA: Not dangerous goods.
Overland transport	
Class (ADR)	: 9 - Miscellaneous dangerous substances and articles
Classification code (ADR)	: M11
EAC	: 2Z

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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	

: DOT/IMDG/IATA: Not dangerous goods.

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Special transport precautions

SECTION 15: Regulatory informatio	n
15.1. US Federal regulations	
ACETOPHENONE (RING-D5, 98%) (28077-6	i4-7)
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, 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 (RING-D5, 98%) (28077-64-7) Listed on the Canadian DSL (Domestic Substances List)

National regulations 15.2.1.

No additional information available

15.3. US State regulations

ACETOPHENONE (RING-D5, 98%)(28077-64-7)				
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	RTK - U.S Massachusetts - Right To Know List RTK - U.S Pennsylvania - RTK (Right to Know) List RTK - U.S New Jersey - Right to Know Hazardous Substance 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
H302	Harmful if swallowed
H318	Causes serious eye damage
R22	Harmful if swallowed
R41	Risk of serious damage to eyes

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	Xi	Irritant		
	Xn	Harmful		
NFP	A health hazard	:	2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.	2
NFP	A fire hazard	:	2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.	2 0
NFP	A reactivity	:	0 - Material that in themselves are normally stable, even under fire conditions.	
Haza	rd Rating			
Healt	th	:	2 Moderate Hazard - Temporary or minor injury may occur	
Flam	mability	:	2 Moderate Hazard	
Phys	ical	:	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