

## MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ACETOPHENONE

CAS Number: 98-86-2

**1. IDENTIFICATION:**

**Product Code** : 91872, 98284

**Company Name** : ADVENT CHEMBIO PRIVATE LIMITED

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**2. HAZARDS IDENTIFICATION:****Hazard classification****Health hazards**

**Acute toxicity, Oral** : Category 4

**Eye irritation** : Category 2

**Labels elements** :

**Hazard symbol** : 

**Signal word** : Warning

**Hazard statement** : Harmful if swallowed  
Causes serious eye irritation.

**Precautionary statement**

**Prevention** : Obtain special instructions before use.  
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
Keep container tightly closed. Ground/ bond container and receiving equipment.  
Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
Use only non-sparking tools. Take precautionary measures against static discharge.

**Response** : IF exposed or concerned: Get medical advice/ attention.  
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.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

**Storage** : Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Disposal** : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.



## MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ACETOPHENONE

CAS Number: 98-86-2

**Other hazards which do not result in GHS classification** : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**3. COMPOSITION/ INFORMATION ON INGREDIENTS:**

Ingredient	CAS Number	Percent	Hazardous
Acetophenone	98-86-2	NLT 99.0%	No

**4. FIRST AID MEASURES:**

**General information** : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

**Ingestion** : Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**Inhalation** : Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.

**Skin contact** : Get medical attention if symptoms persist.

**Eye contact** : Flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Most important symptoms/effects, acute and delayed** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Indication of immediate medical attention and special treatment needed** : The most important known symptoms and effects are described in the labelling.

: No data available.

**5. FIRE FIGHTING MEASURES:****General information****Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media** : Water, foam, dry powder or carbon dioxide.

**Unsuitable extinguishing media** : For this substance/mixture no limitations of extinguishing agents are given.

**Specific hazards arising from the chemical** : Carbon oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapors possible in the event of fire.

**Special protective equipment and precautions for firefighters**

**Special firefighting procedures** : Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

## MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: ACETOPHENONE

CAS Number: 98-86-2

**Special protective equipment for fire-fighters** : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**6. ACCIDENTAL RELEASE MEASURES:**

**Personal precautions, protective equipment and emergency procedures** : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

**Methods and material for containment and cleaning up** : Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

**Notification Procedures** : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

**Environmental precautions** : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**7. HANDLING AND STORAGE:**

**Precautions for safe handling** : Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities** : Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place.

**8. EXPOSURE CONTROLS PERSONAL PROTECTION:****Control parameters****Appropriate engineering****controls** : No data available**Individual protection measures, such as personal protective equipment**

**General information** : Ventilation rates should be matched to conditions. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

**Eye/face protection** : Wear safety glasses with side shields (or goggles).

**Hand protection** : Chemical resistant gloves.

## MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: ACETOPHENONE

CAS Number: 98-86-2

<b>Other</b>	:	Wear suitable protective clothing.
<b>Respiratory protection</b>	:	Recommended Filter type: Filter A-(P2) The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.
<b>Hygiene measures</b>	:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

<b>Appearance</b>	:	Clear colourless to slightly yellowish liquid.
<b>Odor</b>	:	Pleasant
<b>Solubility</b>	:	Miscible in water.
<b>Formula</b>	:	C <sub>8</sub> H <sub>8</sub> O
<b>Molecular Weight</b>	:	120.14 g/mol
<b>Density</b>	:	1.025 - 1.027 g/cm <sup>3</sup> at 20°C
<b>pH</b>	:	No data available
<b>% Volatiles by volume @ 21C (70F)</b>	:	No data available
<b>Boiling Point</b>	:	202°C
<b>Melting Point</b>	:	20°C
<b>Flash Point</b>	:	82 °C
<b>Vapor Density (Air=1)</b>	:	4.15
<b>Vapor Pressure (mm Hg)</b>	:	0.45 @ 25°C
<b>Evaporation Rate (BuAc=1)</b>	:	No data available

**10. STABILITY AND REACTIVITY:**

<b>Reactivity</b>	:	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
<b>Chemical stability</b>	:	Material is stable under ambient conditions..
<b>Possibility of hazardous reactions</b>	:	Exothermic reaction with: Strong oxidizing agents, strong alkalis, strong reducing agents
<b>Conditions to avoid</b>	:	Strong heating.
<b>Incompatible materials</b>	:	No data available
<b>Hazardous decomposition products</b>	:	In the event of fire: see section 5

## MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ACETOPHENONE

CAS Number: 98-86-2

**11. TOXICOLOGICAL INFORMATION:**

## Information on toxicological effects

## Acute toxicity (list all possible routes of exposure)

Oral Product	: LD 50 (Rat): 815 mg/kg
Dermal Product	: LD 50 (Rat): 3.300 mg/kg
Inhalation Product	: No data available.
Repeated dose toxicity Product	: No data available.
Skin corrosion/irritation Product	: No skin irritation
Serious eye damage/eye irritation Product	: Irritating to eyes.
Respiratory or skin sensitization Product	: No data available.
Carcinogenicity Product	: No data available.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	: No data available.
US. National Toxicology Program (NTP) Report on Carcinogens	: No data available.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	: No data available.
Germ cell mutagenicity	
In vitro Product	: No data available.
Reproductive toxicity Product	: No data available.
Specific target organ toxicity - single exposure Product	: No data available.
Specific target organ toxicity - repeated exposure Product	: No data available.
Aspiration hazard Product	: No data available.
Other effects	: None known.

## MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: ACETOPHENONE

CAS Number: 98-86-2

**12. ECOLOGICAL INFORMATION:****Ecotoxicity****Acute hazards to the aquatic environment****Fish Product** : flow-through test LC50 - Pimephales promelas (fathead minnow) - 162 mg/l - 96 h**Aquatic invertebrates Product** : Static test LC50 - Daphnia magna (Water flea) - 528 mg/l - 48 h**Toxicity to algae** : static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 86,4 mg/l - 72 h**Toxicity to bacteria** : static test IC50 - activated sludge - > 1.000 mg/l - 3 h**Chronic hazards to the aquatic environment****Fish Product** : No data available.**Aquatic invertebrates Product** : No data available.**Toxicity to Aquatic Plants Product:** : No data available.**Persistence and degradability****Biodegradation Product** : Readily biodegradable**BOD/COD ratio Product** : No data available.**Bioaccumulative potential****Bioconcentration factor (BCF) Product** : No data available on bioaccumulation.**Partition coefficient n-octanol / water (log Kow) Product** : No data available.**Mobility in soil** : No data available.**Other adverse effects** : Discharge into the environment must be avoided.  
Stability in water - 56 d Remarks: reaction with hydroxyl radicals**13. DISPOSAL CONSIDERATION:****Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.**Contaminated packaging** : Since emptied containers retain product residue, follow label warnings even after container is emptied.

MATERIAL SAFETY DATA SHEET

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CAS Number: 98-86-2

14. TRANSPORT INFORMATION:

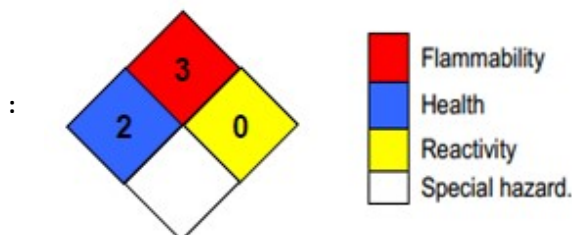
	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	NA	Acetophenone		Not dangerous goods	
IMDG	NA	Acetophenone		Not dangerous goods	
IATA	NA	Acetophenone		Not dangerous goods	

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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