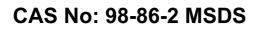
## ACETOPHENONE AR MSDS





## MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
Trade name	: Acetophenone 99.5% AR
EC index no	: 606-042-00-1
EC no	: 202-708-7
CAS No	: 98-86-2
Product code	: 00019
Formula	: C8H8O
Synonyms	: Methyl phenyl ketone

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

### 1.2.1. Relevant identified uses

Use of the substance/mixture

: Laboratory chemicals, Manufacture of substances

### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

CHEMIECALL JI. Diklat Pemda, Dukuh Pinang No. 24 RT.001/003 Kel. Bojong Nangka Kec. Kelapa Dua Tangerang 15821 Contact: +62(21) 54210228 info@chemiecall.com www.chemiecall.com

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), H302 Category 4 Serious eye damage/eye H319 irritation, Category 2

Full text of classification categories and H statements : see section 16

### Classification according to Directive 67/548/EEC or 1999/45/EC Xn; R22 Xi; R36

## Acetophenone 99.5% AR

Safety Data Sheet

Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Reg	ulation (EC) No. 1272/2008 [CLP] Extra labelling to displayExtra classification(s) to display
Hazard pictograms (CLP)	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H302 - Harmful if swallowed H319 - Causes serious eye irritation
Precautionary statements (Cl	.P) : P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

No additional information available

### SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name	Product identifier	%
ACETOPHENONE AR	(CAS No) 98-86-2 (EC no) 202-708-7 (EC index no) 606-042-00-1	100

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

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Take o ffcontaminated clothing. Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.

4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Harmful if swallowed.
4.3. Indication of any immediate me	dical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
<b>F</b> 4 <b>F</b> still with the second to	
5.1. Extinguishing media	, dry shamical navydar, alashal rasistant faam, aarban diavida (CO2)
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	e substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measure	S
6.1. Personal precautions, protectiv	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
Emergency procedures	. Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Stop release.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for conta	inment and cleaning up
Methods for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills
	with inert solids, such as clay or diatomaceous earth as soon as possible.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash thoroughly after
	handling.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Storage conditions	: Keep container tightly closed. Store in a dry place.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/persona	I protection
8.1. Control parameters	

No additional information available

Hand production: protective glovesEye protection:: Chemical goggles or safety glassesSkin and body protection:: Wear suitable protective clothingRespiratory protection:: Wear appropriate maskSECTION 9: Physical and chemical propertiesPhysical stateImage de la colspan="2">Image de la colspan="2"Image de la c	8.2. Exposure controls			
Skin and body protection:Wear subtable protective clothingRespiratory protection:Wear appropriate maskSECTION 3: Physical and chemical propertiesPhysical and chemical physical arrespinate propertiesPhysical and chemical physical arrespinate propertiesPhysical and chemical physical arrespinate propertiesPhysical artespinate physical arrespinate propertiesOdour mass:LiquidOdour mess:Delar Coloréss.Odour threshold:No data availablePh:No data availableRelative evaporation rate (butylacetates):No data availablePheting point:19 - 20Freezing point:No data availableBoling point::No data availablePotoporpristo temperature::No data availablePotopor pressure::No data available <td>Hand protection</td> <td>: protective gloves</td>	Hand protection	: protective gloves		
Respiratory protection       i. Wear appropriate mask         SetCTION 3: Physical and chemical properties         Physical state       Liquid         Molecular mass       i. 120.15 g/mol         Colour       i. 20.15 g/mol         Colour       i. 20.15 g/mol         Odour       i. 20.15 g/mol         Odour threshold       i. No data available         pH       i. No data available         pH       i. No data available         Relative evaporation rate (butylacetate=1)       i. No data available         Melting point       i. 19 - 20         Freezing point       i. No data available         Boiling point       i. 202 °C         Flash point       i. 76 °C         Auto-ignition temperature       i. No data available         Planmability (solid, gas)       i. No data available         Yaopur pressure       i. No data available         Vapour pressure       i. No data available         Pensity       i. No data available         Density       i. No data available         Density				
Sectron version       and chemical properties         9.1. Information on basic physical and chemical properties         Physical state       : Liquid         Molecular mass       : 120.15 g/mol         Colour       : Clear Coloriess.         Odour       : pungent, floral odor.         Odour threshold       : No data available         pH       : No data available         Relative evaporation rate (butylacetate=1)       : No data available         Melling point       : 19 - 20         Freezing point       : No data available         Boiling point       : 202 °C         Flash point       : 76 °C         Auto-ignition temperature       : 5710 °C         Decomposition temperature       : No data available         Flash point       : No data available         Yaour pressure       : 1 hPa at 20 °C         Relative vapour density at 20 °C       : 4.1         Relative dansity       : No data available         Density       : 1.03 g/cm <sup>a</sup> Solubility       : Wo data available         Density       : 1.03 g/cm <sup>a</sup> Solubility       : Wo data available         Viscosity, kinematic       : No data available         Viscosity, kinematic       : No data avai				
9.1         Information on basic physical weights           Physical state         i Liquid           Molecular mass         i 20.15 g/mol           Colour         i Clear Colorless.           Odour         i Dungent, floral odor.           Odour threshold         i No data available           pH         i No data available           Relative evaporation rate (butylacetate=)         i No data available           Melting point         i No data available           Boiling point         i So 70 °C           Auto-ignition temperature         i So 710 °C           Decomposition temperature         i No data available           Vapour pressure         i No data available           Vapour pressure         i No data available           Vapour pressure         i No data available           Denshijtity         i No data available           Denshijty				
Physical state: lquidMolecular mass: 20.15 g/molColour: Clear Colorless.Odour: pungent, floral odor.Odour threshold: Nodata availablepH: Nodata availableRelative evaporation rate (butylacetates): Nodata availableMilling point: 19 - 20Freezing point: 202 °CFash point: 202 °CFash point: 5710 °CAuto-ignition temperature: Nodata availablePouroperature: Nodata availablePouroperature: Nodata availableRelative vapour donsity active: S710 °CAuto-ignition temperature: Nodata availablePouroperature: Nodata availablePouroperature <td colspan="4"></td>				
Colour: Clear Coloress.Odour: pugent, floral odor.Odour threshold: No data availablepH: No data availableRelative evaporation rate (butylacetae): No data availableMeting point: No data availableFreezing point: No data availableBolling point: 202 °CFach point: So data availableAudr-igntion temperature: So data availablePocomposition temperature: No data availableVapour pressure: No data availableVapour pressure: No data availablePathanbility (solid, gas): No data availableVapour pressure: No data availablePosity: No data availableSolubility: No data availableVapour pressure: No data availablePosity: No data availableSolubility: No data availablePosity: No data availableSolubility: No data availableLing Pow: No data availableVapour pressure: No data availableVapour porties: No data availableVapour porties<				
Odour thresholdi No data availablepHi No data availableRelative evaporation rate (butylacetate)i No data availableMetting pointi 19-20Freezing pointi No data availableBolling pointi 202 °CFash pointi 202 °CFash pointi 76 °CAuto-ignition temperaturei No data availablePeomoposition temperaturei No data availablePanmability (solid gas)i No data availableVapour pressurei No data availableRelative vapour density at 20 °Ci No data availableRelative densityi No data availablePoshubilityi Solada availablePoshubilityi No data availableRelative dansityi No data availableRelative apour density at 20 °Ci A14Relative apour density at 20 °Ci Solada availablePoshubilityi Solada availablePoshubilityi No data availableSolubilityi No data availableLog Powi 1.6Viscosity kinematici No data availableViscosity kinematici No data availableViscosity kinematici No data availableViscosity kinematici No data availableStoada inducei No data availableStoada inducei No data availableViscosity kinematici No data availableStoada inducei No data availableStoada inducei No data availableStoada inducei No data availableStoada inducei No data avail		-		
pHiNotata availableRelative exaporation rate (butty)iNotata availableMetting pointi9 - 20Freazing pointiNotata availableBoling pointi20 ° CFlash pointi7 ° CActo-grintion temperatureiS ° To ° CPocomposition temperatureiNotata availablePocomposition temperatureiNotata availablePotomposition temperature<	Odour	: pungent, floral odor.		
.Relative evaporation rate (butylacetate=)iNo data availableMelting pointi19 - 20Freezing pointiNo data availableBoiling pointi202 °CFlash pointi76 °CAuto-ignition temperaturei5710 °CDecomposition temperatureiNo data availableFlammability (solid, gas)iNo data availableVapour pressurei1 hPa at 20 °CRelative vapour density at 20 °Ci4.1Relative densityiNo data availableDensityi1.03 g/cm³Solubilityi1.6Viscosity, kinematiciNo data availableViscosity, dynamiciNo data availableViscosity, dynamiciNo data availableExplosive propertiesiNo data availableViscosity, dynamiciNo data availableExplosive propertiesiNo data availableViscosity, dynamiciNo data available <td>Odour threshold</td> <td>: No data available</td>	Odour threshold	: No data available		
Meiting point: 19 - 20Freezing point: No data availableBoiling point: 202 °CFlash point: 76 °CAuto-ignition temperature: 5710 °CDecomposition temperature: No data availableFlammability (solid, gas): No data availableVapour pressure: 1 hPa at 20 °CRelative vapour density at 20 °C: 4.1Relative density: No data availableDensity: 1.03 g/cm³Solubility: Vater: Slightly soluble in waterLog Pow: 1.6Viscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableExplosive properties: No data availableKinematic: No data availableViscosity, dynamic: No data availableKinematic: No d	рН	: No data available		
Freezing point: No data availableBoling point: 202 °CFlash point: 76 °CAuto-ignition temperature: 5710 °CDecomposition temperature: No data availableFlammability (solid, gas): No data availableVapour pressure: 1 NPa at 20 °CRelative vapour density at 20 °C: No data availableRelative density: No data availableBensity: No data availableSolubility: No data availableLog Pow: 1.03 /cm³: Vater: Slightly soluble in waterLog Pow: No data availableViscosity, kinematic: No data availableYiscosity, dynamic: No data availableExplosive properties: No data availableKing properties: No data available <td>Relative evaporation rate (butylacetate=1)</td> <td>: No data available</td>	Relative evaporation rate (butylacetate=1)	: No data available		
Provide Boiling point: 202 °CFlash point: 76 °CAuto-ignition temperature: 5710 °CDecomposition temperature: No data availableFlammability (solid, gas): No data availableVapour pressure: 1 hPa at 20 °CRelative vapour density at 20 °C: 4.1Relative density: No data availableDensity: 1.03 g/cm³Solubility: Vater: Slightly soluble in waterLog Pow: 1.6Viscosity, kinematic: No data availableViscosity, kinematic: No data availableExplosive properties: No data availableExplosive properties: No data availableExplosive properties: No data available	Melting point	: 19 - 20		
Flash point: 76 °CAuto-ignition temperature: 5710 °CDecomposition temperature: No data availableFlammability (solid, gas): No data availableVapour pressure: 1 hPa at 20 °CRelative vapour density at 20 °C: 4.1Relative density: No data availableDensity: 1.03 g/cm³Solubility: Water: Slightly soluble in waterLog Pow: 1.6Viscosity, kinematic: No data availableViscosity, kinematic: No data availableExplosive properties: No data availableSolubility: No data availableKinematic: No data avail	Freezing point	: No data available		
Auto-ignition temperature: 5710 °CDecomposition temperature: No data availableFlammability (solid, gas): No data availableVapour pressure: 1 hPa at 20 °CRelative vapour density at 20 °C: 4.1Relative density: No data availableDensity: 1.03 g/cm³Solubility: 1.6Log Pow: 1.6Viscosity, kinematic: No data availableViscosity, kinematic: No data availableExplosive properties: No data availableSolubility: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableSolubility: No data availableSolubility </td <td>Boiling point</td> <td>: 202 °C</td>	Boiling point	: 202 °C		
Decomposition temperature: No data availableFlammability (solid, gas): No data availableVapour pressure: 1 hPa at 20 °CRelative vapour density at 20 °C: 4.1Relative density: No data availableDensity: 1.03 g/cm³Solubility: Water: Slightly soluble in waterLog Pow: 1.6Viscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: No data available	Flash point	: 76 °C		
Flammability (solid, gas): No data availableVapour pressure: 1 hPa at 20 °CRelative vapour density at 20 °C: 4.1Relative density: No data availableDensity: 1.03 g/cm³Solubility: Vater: Slightly soluble in waterLog Pow: 1.6Viscosity, kinematic: No data availableViscosity, componenties: No data availableExplosive properties: No data availableOxidising properties: No data available	Auto-ignition temperature	: 5710 °C		
Vapour pressure: 1 hPa at 20 °CRelative vapour density at 20 °C: 4.1Relative density: No data availableDensity: 1.03 g/cm³Solubility: Water: Slightly soluble in waterLog Pow: 1.6Viscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: No data available	Decomposition temperature	: No data available		
Relative vapour density at 20 °C: 4.1Relative density: No data availableDensity: 1.03 g/cm³Solubility: Water: Slightly soluble in waterLog Pow: 1.6Viscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: No data available	Flammability (solid, gas)	: No data available		
Relative density: No data availableDensity: 1.03 g/cm³Solubility: Water: Slightly soluble in waterLog Pow: 1.6Viscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: No data available	Vapour pressure	: 1 hPa at 20 °C		
Density: 1.03 g/cm³Solubility: Water: Slightly soluble in waterLog Pow: 1.6Viscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: No data available	Relative vapour density at 20 °C	: 4.1		
Solubility: Water: Slightly soluble in waterLog Pow: 1.6Viscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: No data available	Relative density	: No data available		
Viscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: No data available	-	-		
Viscosity, dynamic       : No data available         Explosive properties       : No data available         Oxidising properties       : No data available	Log Pow	: 1.6		
Explosive properties       : No data available         Oxidising properties       : No data available	Viscosity, kinematic	: No data available		
Oxidising properties : No data available	Viscosity, dynamic	: No data available		
	Explosive properties	: No data available		
	Oxidising properties	: No data available		
Explosive limits : 0.014 - 0.052 VOI %	Explosive limits	: 0.014 - 0.052 vol %		

- 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 under normal conditions.	
10.3. Possibility of hazardous reaction	
No additional information available	10
10.4. Conditions to avoid	
Direct sunlight. Overheating. Open flame. H	eat. Sparks.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition produ	licts
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological effe	cts
Acute toxicity	: Oral: Harmful if swallowed.
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single	: Not classified
exposure)	
Specific target organ toxicity (repeated	: Not classified
exposure)	
Aspiration hazard	: Not classified
Detential advarge human health affects	· Horreful if availaved
Potential adverse human health effects and symptoms	: Harmful if swallowed.
SECTION 12: Ecological information	
12.1. Toxicity	

No additional information available

12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
Acetophenone 99.5% AR (98-86-2)	
Log Pow	1.6
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assess	we and
12.5. Results of PBT and vPvB assess No additional information available	ment
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal	: Dispose of contents/container to
recommendations	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA	A/ADN
14.1. UN number	
UN-No. (ADR)	: 3334
UN-No. (IMDG)	: 3334
UN-No.(IATA)	: 3334
UN-No.(ADN)	: 3334
UN-No. (RID)	: 3334
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: aviation regulated liquid, n.o.s.
Proper Shipping Name (IMDG)	: AVIATION REGULATED LIQUID, N.O.S.
Proper Shipping Name (IATA)	: AVIATION REGULATED LIQUID, N.O.S.
Proper Shipping Name (ADN)	: Aviation regulated liquid, n.o.s.
,	
Proper Shipping Name (RID)	: Aviation regulated liquid, n.o.s.
Transport document description (ADR)	: UN 3334 aviation regulated liquid, n.o.s., 9
Transport document description (IMDG)	: UN 3334 AVIATION REGULATED LIQUID, N.O.S., 9
Transport document description (IATA)	: UN 3334 AVIATION REGULATED LIQUID, N.O.S., 9, III
Transport document description (ADN)	: UN 3334 Aviation regulated liquid, n.o.s., 9
Transport document description (RID)	: UN 3334 Aviation regulated liquid, n.o.s., 9
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 9
Hansport Hazard Glass(CS) (ADIT)	
IMDG	
Transport hazard class(es) (IMDG)	: 9
· · ·	

Danger labels (IMDG)	: 9			
	9			
Transport hazard class(es) (IATA) Hazard labels (IATA)	: 9 : 9			
ADN				
Transport hazard class(es) (ADN)	: 9			
RID				
Transport hazard class(es) (RID)	: 9			
14.4. Packing group				
Packing group (ADR)	: Not applicable			
Packing group (IMDG)	: Not applicable			
Packing group (IATA)	: 111			
Packing group (ADN)	: Not applicable			
Packing group (RID)	: Not applicable			
14.5. Environmental hazards				
Dangerous for the environment	: No			
Marine pollutant	: No			
Other information	: No supplementary information available			
14.6. Special precautions for user				
- Overland transport				
Transport regulations (ADR)	: Not subject			
Classification code (ADR)	: M11			
EAC code	: 2Z			
- Transport by sea				
Special provision (IMDG)	: 960			
Stowage category (IMDG)	: None			
- Air transport				
PCA Excepted quantities (IATA)	: E1			
PCA Limited quantities (IATA) PCA limited quantity max net quantity	: Y964 : 30kgG			
(IATA) PCA packing instructions (IATA)	: 964			
PCA max net quantity (IATA)	: 100L			
CAO packing instructions (IATA)	: 964			
CAO max net quantity (IATA)	: 220L			
	. 2202			

## Acetophenone 99.5% AR

### Safety Data Sheet

•	
Special provision (IATA)	: A27
ERG code (IATA)	: 9A
- Inland waterway transport	
Classification code (ADN)	: M11
- Rail transport	
Classification code (RID)	: M11
Limited quantities (RID)	: 0

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

Not applicable

**SECTION 15: Regulatory information** 

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions Acetophenone 99.5% AR is not on the REACH Candidate List Acetophenone 99.5% AR is not on the REACH Annex XIV List

### 15.1.2. National regulations

Germany	
AwSV/VwVwS Annex reference	: Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 735)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Denmark	
Class for fire hazard	: Class III-1
Store unit	: 50 liter
Classification remarks	<ul> <li>Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed</li> </ul>
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

## Acetophenone 99.5% AR

## Safety Data Sheet

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed
H319	Causes serious eye irritation
R22	Harmful if swallowed
R36	Irritating to eyes
Xi	Irritant
Xn	Harmful

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