



1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING				
1.1 Product id	1.1 Product identifiers			
Product name:	ACETYL CHLORIDE			
CAS-No.:	75-36-5			
Product Numbe	er: A65535			
1.2 Relevant id	lentified uses of the substance or mixture and uses advised against			
Identified uses: Laboratory chemicals, Manufacture of substances				
1.3 Details of the supplier of the safety data sheet				
Company :	Philip Harris Ltd., 2 Gregory Street, Hyde, Cheshire, SK14 4HR,			
	UNITED KINGDOM			
Telephone:	+44 (0)845 1200 506 Fax: +44 (0)161 367 2140			
Email:	enquiries@philipharris.co.uk			
1.4 Emergency telephone number				
Emergency Phone #: +44 (0)845 1200 506				

# 2 HAZARDS IDENTIFICATION

2. HAZARDS IDE	INTERCATION				
2.1 Classification of the substance or mixture					
Classification ac	ording to Regulation (EC) No 1272/2008 [EU-GHS/CLP]				
Flammable liquids	s (Category 2)				
Skin corrosion (Ca	ategory 1B)				
Classification ac	cording to EU Directives 67/548/EEC or 1999/45/EC				
Highly flammable.	Reacts violently with water. Causes burns.				
2.2 Label elemer	nts				
Labelling accord	ling Regulation (EC) No 1272/2008 [CLP]				
Pictogram:					
Signal word:	Danger				
Hazard statement	:(s):				
H225	Highly flammable liquid and vapour.				
H314	Causes severe skin burns and eye damage				
Precautionary sta	tement(s):				
P210	Keep away from heat/sparks/open flames/hot surfaces.				
P280	Wear protective gloves/ protective clothing/ eye protection/ face protect	ion.			
	Revision date: 17.10.13 : <b>A65535</b>				

P305 + P351 + P338	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact			
lenses, if present and e	lenses, if present and easy to do. Continue rinsing.			
P310	Immediately call a POISON CENTER or doctor/ physician.			
Supplemental Hazard S	Supplemental Hazard Statements:			
EUH014	Reacts violently with water.			
According to Europea	n Directive 67/548/EEC as amended.			
R-phrase(s)				
R11	Highly flammable.			
R14	Reacts violently with water.			
R34	Causes burns.			
S-phrase(s)				
S9	Keep container in a well-ventilated place.			
S16	6 Keep away from sources of ignition.			
S26	In case of contact with eyes, rinse immediately with plenty of water and seek			
medical advice.				
S45	In case of accident or if you feel unwell, seek medical advice immediately			
(show the label where possible).				
2.3 Other hazards – Irritating to eyes and skin.				

3. COMPOSITION/INFORMAT 3.1 Substances	ION ON INGREDIENTS	
Acetyl chloride		
		CI
Formula:	C <sub>2</sub> H <sub>3</sub> CIO	ö
Molecular Weight:	78.5g/mol	
Component Concentration:	-	
CAS-No.:	75-36-5	
EC-No.:	200-865-6	
Index-No.:	607-011-00-5	

# 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

# General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

# If inhaled:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

# In case of skin contact:

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

# In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

# If swallowed:

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 effects, both acute and delayed

no data available

# 4.3 Indication of immediate medical attention and special treatment needed

no data available

#### 5. FIRE-FIGHTING MEASURES 5.1 Extinguishing media

# Suitable extinguishing media

Dry powder Carbon dioxide (CO2)

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nature of decomposition products not known. Carbon oxides, Hydrogen chloride gas

# 5.3 Precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

# 5.4 Further information

Water hydrolyzes material liberating acidic gas which in contact with metal surfaces can generate flammable and/or explosive hydrogen gas.

A65535

# 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, 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.

# 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# 6.3 Methods and materials for containment and 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 (see section 13). Do not flush with water.

# 6.4 Reference to other sections

For disposal see section 13.

# 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. Keep away from sources of ignition. Take measures to prevent the build up of electrostatic charge.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from water. Never allow product to get in contact with water during storage. Hydrolyses readily. Handle and store under inert gas.

## 7.3 Specific end uses

no data available

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# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

## Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# 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

# Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

# **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

# **Body Protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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9. PHYSICAL AND CHEMICAL	PROPERTIES	
9.1 Information on basic phys	ical and chemic	al properties
a) Appearance: Form: I	_iquid	Colour: Colourless / Clear
b) Odour:	Pungent	
c) Odour Threshold:	no data availabl	e
d) pH:	no data availabl	e
e) Melting/freezing point:	Melting point/rar	nge: -112°C
f) Initial boiling point and boiling	range: 52°C	
g) Flash point:	5°C	
h) Evaporation rate:	no data availabl	e
i) Flammability (solid, gas):	no data availabl	e
j) Upper/lower flammability or ex	plosive limits:	7.3-19%(V)
k) Vapour pressure:	805.765hPa at 2	20°C 2228.432hPa at 55°C
I) Vapour density:	2.71	
m) Relative density:	1.104g/cm <sup>3</sup> at 2	5°C
n) Water solubility:	no data availabl	e
o) Partition coefficient: n-octano	l/water: no data a	available
p) Autoignition temperature:	390°C	
q) Decomposition temperature:	no data availabl	e
r) Viscosity:	no data availabl	e
s) Explosive properties:	no data availabl	e
t) Oxidizing properties:	no data availabl	e
9.2 Other safety information		
no data available		

# 10. STABILITY AND REACTIVITY

# 10.1 Reactivity

no data available

## 10.2 Chemical stability

no data available

## 10.3 Possibility of hazardous reactions

Reacts violently with water.

## 10.4 Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight. Exposure to moisture.

## 10.5 Incompatible materials

Water, Alcohols, Oxidizing agents, Strong bases

# 10.6 Hazardous decomposition products

Other decomposition products - no data available

## **11. TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - rat - 910 mg/kg

Remarks: Peripheral Nerve and Sensation: Spastic paralysis with or without sensory change. Behavioural: Excitement. Lungs, Thorax, or Respiration: Other changes.

#### Skin corrosion/irritation

no data available

#### Serious eye damage/eye irritation

no data available

#### Respiratory or skin sensitization

no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### **Reproductive toxicity**

no data available

#### Specific target organ toxicity - single exposure

no data available

## Specific target organ toxicity - repeated exposure

no data available

## Aspiration hazard

no data available

## Potential health effects

Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

- Ingestion May be harmful if swallowed. Causes burns.
- Skin
   May be harmful if absorbed through skin. Causes skin burns.
- **Eyes** May cause eye irritation.

## Signs and Symptoms of Exposure

no data available

## **Additional Information**

RTECS: AO6390000

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# 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 42 mg/l - 96 h

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Harmful to aquatic life

# **13. DISPOSAL CONSIDERATIONS**

# 13.1 Waste treatment methods

# Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

# Contaminated packaging

Dispose of as unused product.

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14. TRANSPORT INFORMATION						
14.1 UN-Number						
ADR/RID:	1717	IMDG:	1717	IATA:	1717	
14.2 UN prop	14.2 UN proper shipping name					
ADR/RID:	ADR/RID: ACETYL CHLORIDE					
IMDG: ACETYL CHLORIDE						
IATA: ACETYL CHLORIDE						
14.3 Transpo	14.3 Transport hazard class(es)					
ADR/RID:	3(8)	IMDG:	3(8)	IATA:	3(8)	
14.4 Packagi	14.4 Packaging group					
ADR/RID:	П	IMDG:	II	IATA:	II	
14.5 Environmental hazards						
ADR/RID:	no	IMDG Marine pollutant: no		IATA: no		
14.6 Special precautions for users						
no data available						

# **15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

15.2 Chemical Safety Assessment

no data available

# **16. OTHER INFORMATION**

no data available