



Safety Data Sheets

1. Identification

Product name : Acetyl chloride

Name of supplier : JUNSEI CHEMICAL CO., LTD.

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Product code(SDS NO) : 18025jis_E1-1

2. Hazards identification

GHS classification and label elements of the product

GHS classification

PHYSICAL HAZARDS

Flammable liquids : Category 2

HEALTH HAZARDS

Skin corrosion/irritation : Category 1B

(Note) GHS classification without description : Not applicable/Out of classification/Not classifiable



Signal word : Danger

HAZARD STATEMENT

Highly flammable liquid and Vapor

Causes severe skin burns and eye damage.

PRECAUTIONARY STATEMENT

Prevention

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.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash contaminated parts thoroughly after handling.

Wear protective gloves/protective clothing/face protection.

Response

Immediately call a POISON CENTRE or doctor/physician.

Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

In case of fire: Use appropriate media other than water for extinction.

Storage

Store locked up.

Store in well-ventilated place. Keep cool .

Disposal

Dispose of contents/container

Physical and Chemical hazards

Highly flammable liquid. Vapor/air mixture may explode.

3. Composition/information on ingredients

Substance/Preparation :Substance

Ingredient name:Acetyl chloride

content(%):98.0<

Chemical formula:C2H3ClO

Chemicals No, Japan:2-631

CAS No.:75-36-5

MW:78.50

HAZCODE_EU:1B_H314

ECNO:200-865-6

4. First-aid measures

General procedures

Immediately call a POISON CENTRE or doctor/physician.

IF INHALED

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN(or hair)

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: 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 eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth. Do NOT induce vomiting.

Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures

Suitable extinguishing media

In case of fire, use foam, dry powder, CO2, dry sand

Unsuitable extinguishing media

Never use water.

Specific hazards arising from the chemical

Fire may produce irritating, corrosive and/or toxic gases.

Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.

Wear cold insulating gloves/face shield/eye protection.

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.

Wear proper protective equipment.

Environmental precautions

Do not wash away into shower or waterway.

Avoid release to the rivers, lakes, ocean, groundwater.

Methods and materials for neutralization, containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

Collect spillage.

7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Do not breathe dust/fume/gas/mist/vapours/spray.

Use personal protective equipment as required.

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Exhaust/ventilator

Exhaust/ventilator should be available.

Safety treatments

Avoid contact with skin.

Avoid contact with eyes.

Avoid breathing dust, vapor, mist, or gas.

Safety Measures/Incompatibility

Wear protective gloves/protective clothing/eye protection/face protection.

When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities

Recommendation for storage

Keep container tightly closed.

Store locked up.

Store in well-ventilated place. Keep cool .

8. Exposure controls/personal protection

No Adopted value data available

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

Protective equipment

Respiratory protection

Wear positive pressure self-contained breathing apparatus (SCBA).

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Safety and Health measures

Wash ... thoroughly after handling.

Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

Physical properties

Appearance : FUMING LIQUID

Color : COLOURLESS

Odor : PUNGENT ODOUR

pH data N.A.

Phase change temperature

Initial Boiling Point/Boiling point : 51°C

Melting point/Freezing point : -112°C

Flash point : (C.C.) 5°C

Auto-ignition temperature : 390°C

Explosion : Flammability or explosive limit

lower limit : 7.3 vol %

upper limit : 19 vol %

Vapor pressure : 32 kPa (20°C)

Relative Vapor Density (Air=1) : 2.7

Specific gravity/Density : 1.11

Solubility

Solubility in water : reaction

n-Octanol /water partition coefficient data N.A

10. Stability and Reactivity

Stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

React with water.

Attacks many metals in the presence of water. Products of hydrolysis in water include corrosive hydrochloric acid and acetic acid.

Conditions to avoid

Open flames. Heat.

Contact with incompatible materials.

Incompatible materials

Acids, Bases

Water. Alcohols. Certain powdered metals.

Hazardous decomposition products

Carbon oxides

Toxic and corrosive fumes including hydrogen chloride and phosgene.

11. Toxicological Information

Symptoms related to the physical, chemical and toxicological characteristics

No Acute toxicity data available

Irritant properties

Skin corrosion/irritation

Skin burns (HSDB).

No Allergenic and sensitizing effects data available

No Mutagenic effects data available
No Teratogenic effects data available
Carcinogenic effects
 (Acetyl chloride)
 EPA-Group D; Not Classifiable as to Human Carcinogenicity(1986)
No Toxicity for reproduction data available
No Delayed/chronic effects from short/long-term exposure data available
No Aspiration hazard data available

12. Ecological Information

Ecotoxicity
 Water solubility
 (Acetyl chloride)
 reaction (ICSC, 1995)
No Persistence and degradability data available
No Bioaccumulative potential data available

13. Disposal Considerations

Disposal methods
 Dispose of contents/container in accordance with local/national regulation

14. Transport Information

UN No, UN CLASS
 UN No :1717
 UN CLASS :3
 Sub. Risk :8
 PG :II
 Proper shipping name :ACETYL CHLORIDE
ERG GUIDE NO :155

15. Regulatory Information

GHS classification and labelling
 Flam. Liq. 2 : H225 Highly flammable liquid and Vapor
 Skin Corr. 1B : H314 Causes severe skin burns and eye damage.
US major regulations
TSCA
 Acetyl chloride
Other regulatory information
 Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information

Reference Book
 Globally Harmonized System of classification and labelling of chemicals, (4th ed., 2011), UN
 Recommendations on the TRANSPORT OF DANGEROUS GOODS 17th edit. UN
 Classification, labelling and packaging of substances and mixtures (reg.(EC) No 1272/2008)
 2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)
 2013 TLVs and BEIs. (ACGIH)
 <http://monographs.iarc.fr/monoeval/grlist.html>

Supplier's data/information

Other information

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own test

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current EU official data.