

SAFETY DATA SHEETS

According to the UN GHS revision 8

Version: 1.0
Creation Date: July 15, 2019
Revision Date: July 15, 2019

1. SECTION 1: Identification

1.1. GHS Product identifier

Product name 2-ethylhexanoyl chloride

1.2. Other means of identification

Product number -

Other names Hexanoyl chloride, 2-ethyl-; 2-ethyl-hexanoyl chloride; 2-ethylhexanoylchlorid

1.3. Recommended use of the chemical and restrictions on use

Identified uses Intermediates

Uses advised against no data available

1.4. Supplier's details

Company Shandong Sincere Chemical Co., Ltd.

Address No.21 Industrial North Road, Licheng District, Jinan City, Shandong Province, China.

Telephone (+86) 188-6575-9396.

1.5. Emergency phone number

Emergency phone number (+86) 188-6575-9396.

Service hours Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours).

2. SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Corrosive to metals, Category 1

Acute toxicity - Category 4, Oral

Skin corrosion, Sub-category 1B

Skin sensitization, Category 1

Serious eye damage, Category 1

Acute toxicity - Category 2, Inhalation

2.2. GHS label elements, including precautionary statements

Pictogram(s)



Signal word

Danger

Hazard statement(s)

H290 May be corrosive to metalsH302 Harmful if swallowedH314 Causes severe skin burns and eye

damageH317 May cause an allergic skin
reactionH330 Fatal if inhaled

Precautionary statement(s)

Prevention

P234 Keep only in original packaging.P264
Wash ... thoroughly after handling.P270 Do not eat,
drink or smoke when using this product.P260 Do
not breathe dust/fume/gas/mist/vapours/spray.P280
Wear protective gloves/protective clothing/eye
protection/face protection/hearing
protection/...P261 Avoid breathing
dust/fume/gas/mist/vapours/spray.P272
Contaminated work clothing should not be allowed
out of the workplace.P271 Use only outdoors or in
a well-ventilated area.P284 [In case of inadequate
ventilation] wear respiratory protection.

Response

P390 Absorb spillage to prevent material
damage.P301+P317 IF SWALLOWED: Get
medical help.P330 Rinse mouth.P301+P330+P331
IF SWALLOWED: Rinse mouth. Do NOT induce
vomiting.P363 Wash contaminated clothing before
reuse.P304+P340 IF INHALED: Remove person to
fresh air and keep comfortable for breathing.P316
Get emergency medical help immediately.P321
Specific treatment (see ... on this
label).P305+P351+P338 IF IN EYES: Rinse
cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue
rinsing.P302+P352 IF ON SKIN: Wash with plenty
of water/...P333+P317 If skin irritation or rash
occurs: Get medical help.P362+P364 Take off
contaminated clothing and wash it before
reuse.P305+P354+P338 IF IN EYES: Immediately
rinse with water for several minutes. Remove
contact lenses, if present and easy to do. Continue
rinsing.P317 Get medical help.P320 Specific
treatment is urgent (see ... on this label).

Storage

P406 Store in a corrosion resistant/...container with
a resistant inner liner.P405 Store locked
up.P403+P233 Store in a well-ventilated place.
Keep container tightly closed.

Disposal

P501 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.

2.3. Other hazards which do not result in classification

no data available

3. SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
2-ethylhexanoyl chloride	2-ethylhexanoyl chloride	760-67-8	212-081-1	98.5%

4. SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

Medical attention is required. Consult a doctor. Show this safety data sheet (SDS) to the doctor in attendance.

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

Following skin contact

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

Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

4.2. Most important symptoms/effects, acute and delayed

no data available

4.3. Indication of immediate medical attention and special treatment needed, if necessary

no data available

5. SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

5.2. Specific hazards arising from the chemical

no data available

5.3. Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions

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

6.3. Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2. Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

8. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2. Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. 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.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

no data available

9. SECTION 9: Physical and chemical properties and safety characteristics

Physical state	Liquid.
Colour	Colourless - yellowish.
Odour	no data available
Melting point/freezing point	< -75 °C.
Boiling point or initial boiling point and boiling range	181.65 °C. Atm. press.: 1 013.25 hPa.
Flammability	no data available
Lower and upper explosion limit/flammability limit	no data available
Flash point	69 °C. Atm. press.: 1 013.25 hPa.
Auto-ignition temperature	246 °C. Atm. press.: 1 016 - 1 018 mBar.
Decomposition temperature	no data available
pH	no data available
Kinematic viscosity	no data available
Solubility	no data available
Partition coefficient n-octanol/water	log Pow = 2.4. Temperature: 25 °C.
Vapour pressure	0.95 hPa. Temperature: 20 °C. Remarks: Intrapolated from vapour pressure curve.; 6.71 hPa. Temperature: 50 °C. Remarks: Intrapolated from vapour pressure curve.; 1 013.25 hPa. Temperature: 181.65 °C. Remarks: Intrapolated from vapour pressure curve.
Density and/or relative density	950 kg/m ³ . Temperature: 20 °C.
Relative vapour density	no data available
Particle characteristics	no data available

10. SECTION 10: Stability and reactivity

10.1. Reactivity

no data available

10.2. Chemical stability

no data available

10.3. Possibility of hazardous reactions

no data available

10.4. Conditions to avoid

no data available

10.5. Incompatible materials

no data available

10.6. Hazardous decomposition products

no data available

11. SECTION 11: Toxicological information

Acute toxicity

- Oral: LD50 - rat (female) - 1 330 mg/kg bw.
- Inhalation: LC50 - rat (male/female) - 1.26 mg/L air.
- Dermal: LD50 - rabbit (male/female) - > 2 010 mg/kg bw.

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

12. SECTION 12: Ecological information

12.1. Toxicity

- Toxicity to fish: LC50 - Pimephales promelas - 70 mg/L - 96 h.
- Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna - 85.4 mg/L - 48 h.
- Toxicity to algae: EC50 - Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) - 49.3 mg/L - 72 h.
- Toxicity to microorganisms: EC10 - Pseudomonas putida - 71.7 mg/L - 17 h.

12.2. Persistence and degradability

15. SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number	
2-ethylhexanoyl chloride	2-ethylhexanoyl chloride	760-67-8	212-081-1	
European Inventory of Existing Commercial Chemical Substances (EINECS)				Listed.
EC Inventory				Listed.
United States Toxic Substances Control Act (TSCA) Inventory				Listed.
China Catalog of Hazardous chemicals 2015				Not Listed.
New Zealand Inventory of Chemicals (NZIoC)				Not Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)				Listed.
Vietnam National Chemical Inventory				Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)				Listed.
Korea Existing Chemicals List (KECL)				Listed.

16. SECTION 16: Other information

Information on revision

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Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

References

- IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>
- HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

- IARC - International Agency for Research on Cancer, website:
<http://www.iarc.fr/>
- eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website:
http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
- ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>
- Germany GESTIS-database on hazard substance, website:
<http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>
- ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.