

**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Company Name **ECP Limited**  
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<b>Product</b>	Adipoyl Chloride				<b>Code</b>	1108
<b>CAS#</b>	<b>HSNO#</b>	<b>UN #</b>	<b>DG Class/es</b>	<b>Packing group #</b>	<b>Tracking?</b>	<b>Handlers Certificate?</b>
111-50-2	HSR004331	3265	8	II	No	No

**Recommended use:** Laboratory Investigations

**2. Hazards identification**

2.1 GHS Classification

Skin corrosion (Category B)

Serious eye damage (Category A)

2.2 GHS Label elements, including precautionary statements



Signal word **Danger**

Hazard statement(s)

H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

Prevention

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

P363 Wash contaminated clothing before reuse.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards

Lachrymator.

**3. Composition/information on ingredients**

3.1 Substances

Synonyms: Adipyl chloride

Formula: C<sub>6</sub>H<sub>8</sub>Cl<sub>2</sub>O<sub>2</sub>

Molecular Weight: 183.03 g/mol

Component	Concentration
Adipoyl Chloride	
CAS No.	111-50-2

#### 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

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, Shortness of breath, Headache, Nausea

##### 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

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

##### 5.2 Special hazards arising from the substance or mixture

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

No data available

#### 6. Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

##### 6.2 Environmental precautions

Do not let product enter drains.

##### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### 7. Handling and storage

##### 7.1 Precautions for safe handling

Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

#### 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.

Store under inert gas. Moisture sensitive.

#### 7.3 Specific end uses

No data available

### **8. Exposure controls/personal protection**

#### 8.1 Control parameters

Occupational Exposure Limits

We are not aware of any national exposure limit.

#### 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.

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.

Body Protection

Complete suit protecting against chemicals. 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 multi-purpose combination.

### **9. Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

##### a) Appearance

Form: clear, liquid

Colour: light brown

##### b) Odour

No data available

##### c) Odour Threshold

No data available

##### d) pH

No data available

##### e) Melting/freezing point

No data available

##### f) Initial boiling point and boiling range

105 - 107 °C at 3 hPa - lit.

##### g) Flash point

112 °C - closed cup

##### h) Evaporation rate

No data available

- i) Flammability (solid, gas)  
No data available
- j) Upper/lower flammability or explosive limits  
No data available
- k) Vapour pressure  
No data available
- l) Vapour density  
No data available
- m) Relative density  
1.259 g/cm<sup>3</sup> at 25 °C
- n) Water solubility  
No data available
- o) Partition coefficient: n-octanol/water  
No data available
- p) Autoignition temperature  
No data available
- q) Decomposition temperature  
No data available
- r) Viscosity  
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  
No data available
- 10.4 Conditions to avoid  
Avoid 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  
No data available
  - 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  
 Causes eye burns.  
 Signs and Symptoms of Exposure  
 Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, Shortness of breath, Headache, Nausea  
 Additional Information  
 RTECS: Not available

**12. Ecological information**

12.1 Toxicity  
 no data available  
 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  
 no data available

**13. Disposal considerations**

13.1 Waste treatment methods  
 Product  
 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.

**14. Transport Information Table**

	<b>ADR/RID – European packaging certification</b>	<b>IMDG International Maritime Dangerous Goods</b>	<b>IATA – DGR International Air Travel Association – Dangerous</b>

			Code	Goods Regulations
14.1	UN Number	3265	3265	3265
14.2	UN Proper Shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Adipoyl dichloride)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Adipoyl dichloride)	Corrosive liquid, acidic, organic, n.o.s. (Adipoyl dichloride)
14.3	Transport Hazard Class	8	8	8
14.4	Packaging group	II	II	II
14.5	Environmental Hazards	No	No	No
14.6	Special precautions for user	No data available		

### 15. Regulatory information

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

National regulatory information

HSNO Approval Code: HSR004331

HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006

Tracking Required: not required

Approved Handler Cert.: not required

### 16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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