



## Safety Data Sheet

Date of Issue: 1.12.2020

Date of Expiry: 1.12.2025

### 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name: : **ECP Limited**  
Address: : PO Box 34125, Birkenhead, Auckland 0746  
Telephone: : +64 9 480 4386  
Facsimile: : +64 9 480 4385  
Emergency phone number: : 0800 243 622 (24 hours)

<b>Product</b>	<b>Trichloroacetyl chloride</b>			<b>Code</b>	<b>808391</b>
<b>CAS#</b>	<b>HSNO#</b>	<b>UN #</b>	<b>DG Class/es</b>	<b>Packing group #</b>	
76-02-8	HSR004735	2442	8	III	

**Recommended use** : Laboratory Investigations

### 2: Hazards identification

#### 2.1 GHS Classification

Acute toxicity, Oral (Category D), H302

Acute toxicity, Inhalation (Category A), H330

Skin corrosion (Category B), H314

Serious eye damage (Category A), H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements



#### Pictogram

Signal word Danger

#### Hazard statement(s)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H330 Fatal if inhaled.

Precautionary statement(s)

Prevention

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

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

P284 Wear respiratory protection.

### **Response**

P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

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/ doctor.

P320 Specific treatment is urgent (see supplemental first aid instructions on this label).

P363 Wash contaminated clothing before reuse.

### **Storage**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

### **Disposal**

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

### **2.3 Other hazards**

Reacts violently with water.  
Lachrymator.

**Environmental Protection Authority (New Zealand)**

**HSNO Classification- Health Hazards**

**Classification 6.1C (All)** Acutely toxic

**Classification 8.2C** Corrosive to dermal tissue

**Classification 9.3B** Ecotoxic to terrestrial vertebrates

**3: Composition/information on ingredients**

**3.1 Substances**

Formula : C2Cl4O

Molecular weight : 181.83 g/mol

CAS-No. : 76-02-8

EC-No. : 200-926-7

**Hazardous ingredients**

Component	Classification	Concentration
trichloroacetyl chloride	6.1 D; 6.1 A; 8.2 B; 8.3 A; H302, H330, H314, H318	<= 100 %

**4: First aid measures**

**4.1 Description of first-aid measures**

**General advice**

Consult a physician. Show this material 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. Take victim immediately to hospital. 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**

The most important known symptoms and effects are described in the labelling

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available

**5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Dry powder

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

Carbon oxides, Hydrogen chloride gas

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

No data available

**6: Accidental release measures**

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

Wear respiratory protection. Avoid breathing vapours, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. 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. Do not flush with water. Keep in suitable, closed containers for disposal.

## **7: Handling and storage**

### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

For precautions see section 2.2.

### **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.

Never allow product to get in contact with water during storage.

Reacts violently with water.

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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

### **8.1 Control parameters**

Ingredients with workplace control parameters

We are not aware of any national exposure limit.

### **8.2 Exposure controls**

Appropriate engineering controls

Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

### **Personal protective equipment**

#### **Eye/face protection**

Tightly fitting safety goggles. Face shield (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.

#### **Body Protection**

Complete suit protecting against chemicals, Flame retardant 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 multi-purpose 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).

#### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## **9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

a) Appearance Form:	liquid
Color:	light yellow, colorless
b) Odor	No data available
c) Odor Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	
Melting point/range:	-57 °C - lit.
f) Initial boiling point and boiling range	114 - 116 °C - lit.
g) Flash point	100 °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) Vapor pressure	86 hPa at 55 °C
l) Vapor density	No data available
m) Relative density	1.629 g/cm <sup>3</sup> at 25 °C
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available
<b>9.2 Other safety information</b>	No data available

## 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Reacts violently with water.

### 10.4 Conditions to avoid

Exposure to moisture.

### 10.5 Incompatible materials

Alcohols, Strong bases, Strong oxidizing agents, Reacts violently with water.

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas

Other decomposition products - No data available

In the event of fire: see section 5

## 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 600 mg/kg

Remarks: (ECHA)

LC50 Inhalation - Rat - 4 h - 0.475 mg/l

Remarks: (RTECS)

**Skin corrosion/irritation**

(ECHA)

**Serious eye damage/eye irritation**

Risk of blindness!

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

Ames test

S. typhimurium

Result: negative

(ECHA)

**Carcinogenicity**

**IARC:** No ingredient 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

**Additional Information**

RTECS: AO7140000

**12: Ecological information**

**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

Bioaccumulation Fish (trichloroacetyl chloride)

Bioconcentration factor (BCF): 3

Remarks: Does not accumulate in organisms.

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**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.

**14: Transport Information Table**

		<b>ADR/RID – European packaging certification</b>	<b>IMDG International Maritime Dangerous Goods Code</b>	<b>IATA – DGR International Air Travel Association – Dangerous Goods Regulations</b>
<b>14.1</b>	<b>UN Number</b>	2442	2442	2442

14.2	<b>UN Proper Shipping name</b>	TRICHLOROACETYL CHLORIDE	TRICHLOROACETYL CHLORIDE	TRICHLOROACETYL CHLORIDE
14.3	<b>Transport Hazard Class</b>	8	8	8
14.4	<b>Packaging group</b>	III	III	-
14.5	<b>Environmental Hazards</b>	no	no	no
14.6	<b>Special precautions for user</b>	None		
14.7	<b>Incompatible materials</b>	Alcohols, Strong bases, Strong oxidizing agents, Reacts violently with water.		

**Passenger Aircraft: Not permitted for transport Cargo Aircraft: Not permitted for transport**

**Other regulations**

Hazchem Code : 4W

## 15: Regulatory information

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

#### National regulatory information

HSNO Approval Code: HSR004735

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

Group Standard 2006

Tracking Required: not required

Approved Handler Cert.: not required

#### Notification status

AICS: On the inventory, or in compliance with the inventory

DSL: All components of this product are on the Canadian DSL

ENCS: On the inventory, or in compliance with the inventory

ISHL: On the inventory, or in compliance with the inventory

KECI: Not in compliance with the inventory - trichloroacetyl chloride

NZIoC: On the inventory, or in compliance with the inventory

PICCS: On the inventory, or in compliance with the inventory

## 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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