

## 1. Identification

<b>Product identifier:</b>	Roby Acide à Membrane
<b>Product code:</b>	
<b>Supplier name:</b>	Chimiques Nellen 2295 Boulevard Industriel Chambly, Québec J3L 4W3
<b>Telephone:</b>	(450) 447-0707
<b>Emergency telephone number:</b>	(450) 447-0707
<b>Available hours:</b>	8h-16h
<b>Recommended use:</b>	Acid cleaner
<b>Restrictions on use:</b>	For industrial use only

## 2. Hazard identification

**Hazard classification:** DANGER

**Product classification:**



Skin corrosion/irritation-Category 1. Serious eye damage/eye irritation-Category 1. Health hazards not otherwise classified (corrosion)-Category 1.

**Hazard statement(s):** Causes severe skin burns and eye damage. Causes serious injury to the respiratory tract.

### Precautionary statement(s)

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, vapors and spray. Wash thoroughly after handling. Wear protective gloves, protective clothing and eye protection and face protection.

**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting. Immediately call a doctor. Wash contaminated clothing before reuse.

**Storage:** Store locked up.

**Disposal:** Dispose of contents/container in accordance with local, regional, national and/or international regulations in force.

**Other hazards:** No other effects shown.

See toxicological information, section 11

### 3. Composition/information on ingredients

No	CAS No	Common name and synonyms	Concentration (W/W)
1	7647-01-0	Hydrogen chloride	10 to 30%

The real concentrations are retained as industrial secret.

### 4. First-aid measures

**If swallowed, irritation, any type of overexposure or symptoms of overexposure occur during use of the product or persists after use, immediately contact a POISON CENTER, an EMERGENCY ROOM or a PHYSICIAN; ensure that the product safety data sheet is available.**

**Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

**Inhalation:** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

**Ingestion:** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Symptoms:** This product is irritating and corrosive to skin, eyes, respiratory and digestive tracts. The severity of symptoms can vary depending on the exposure conditions (contact time, product concentration, etc.).

**Effects (acute or delayed):** High concentration exposure can lead to severe lesions and ulcerations of the esophageal mucosa and

gastrointestinal tract. Possibility of permanent damage to the cornea. May cause deep ulceration, bleaching and necrosis of the skin. Inhalation of high concentrations vapors can cause severe burns to the mouth and airways leading to the lungs.

**Immediate medical attention and special treatment:** No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5. Fire-fighting measures

**Suitable extinguishing media:** Use the adequate ways to fight the neighbouring fires. Spraying of water. Carbon dioxide. All the agents of extinction are usable.

**Unsuitable extinguishing media:** Not available.

**Specific hazards arising from the hazardous product:** No specific hazard.

**Hazardous combustion products:** Not applicable.

**Special protective equipment and precautions for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

**Personal precautions:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Protective equipment and emergency procedures:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods and materials for containment and cleaning up:** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosionproof equipment. Dispose of via a licensed waste disposal contractor.

## 7. Handling and storage

**Precautions for safe handling:** Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. The handling of this product must comply with local regulations. Store in an airtight container located in a dry, well ventilated and soil corrosion resistant cemented. Refer to the storage of the ROHS standards and NFC. Keep away from combustible materials and acids. If the product is stored with other dangerous substances, refer to the NFC segregation table. Containers for corrosive substances shall be kept closed, carry clear identification of their contents and be handled with care. Note: this product attacks certain types of plastic, rubber or coating.

**Conditions for safe storage:** Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

**Incompatibility:** Bases. Strong acids. Alkali metal. Fuels. Oxidizing agents. Reducing agents.

## 8. Exposure controls/Personal protection

No	CAS No	Common name and synonyms	IDHL mg/m3	TWA mg/m3	STEL mg/m3	CEIL mg/m3
1	7647-01-0	Hydrogen chloride	Not available	Not available	Not available	Not available

IDHL: Immediately Dangerous to Life or Health Concentrations

TWA: Time Weighted Average

STEL: Short -Term Exposure Limit

CEIL: Ceiling Limit

**Appropriate engineering controls:** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Individual protection measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eyes:** NOT WEAR CONTACT LENSES Wear anti-splash safety goggles.

**Hands:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties.

**Respiratory:** If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Others:** Wear protective clothing with long sleeves and appropriate safety shoes at all times.

## 9. Physical and chemical properties

**Physical state:** Liquid

**Colour:** None

**Odour:** Chlorine

**Odour threshold:** Not available

**pH:** 0.01

**Melting/Freezing point:** -74°C (-101.2°F)

**Initial boiling point/boiling range:** 81.5 to 110°C (178.7 to 230°F)

**Flash point:** Not applicable

**Lower flammable/explosive limit:** Not applicable

**Upper flammable/explosive limit:** Not applicable

**Auto-ignition temperature:** Not applicable

**Evaporation rate:** Not available

**Vapour pressure:** 57.00 mm of Hg at 20 °C

**Vapour density:** 1.2 (air=1)

**Relative density:** 1.142 kg/L at 20 °C (water = 1)

**Solubility in water:** Soluble

**Partition coefficient – n-octanol/water:** Not available

**Decomposition temperature:** Not available

**Kinematic viscosity:** Not available

## 10. Stability and reactivity

**Reactivity:** Stable under recommended conditions of storage and handling.

**Chemical stability:** The product is chemically stable under normal conditions of use.

**Possibility of hazardous reactions:** No dangerous or polymerization reactions will not occur under normal conditions of use.

**Conditions to avoid:** Do not pierce or burn, even after use. Keep away from incompatible products.

**Incompatible materials:** (see Section 7)

**Hazardous decomposition products:** Hydrogen chloride.

## 11. Toxicological information

No	CAS No	Common name and synonyms	(1) LD oral	(2) LD skin	(3) LD skin	(4) LC gases	(5) LC vapours	(6) LC dusts-mist
1	7647-01-0	Hydrogen chloride	Not available	Not available	Not available	Not available	Not available	Not available

(1) LD<sub>50</sub> oral mg/kg

(2) LD<sub>50</sub> skin mg/kg

(3) LD<sub>50</sub> skin mg/kg

(4) LC<sub>50</sub> inhalation ppmV 4h gases

(5) LC<sub>50</sub> inhalation mg/l 4h vapours

(6) LC<sub>50</sub> inhalation mg/l 4h dusts-mist

**Routes of exposure:** This product is not absorbed in the body, it exerts a local action that destroys tissue.

**Symptoms:** This product is irritating and corrosive to skin, eyes, respiratory and digestive tracts. The severity of symptoms can vary depending on the exposure conditions (contact time, product concentration, etc.).

**Delayed and immediate effects:** High concentration exposure can lead to severe lesions and ulcerations of the esophageal mucosa and gastrointestinal tract. Possibility of permanent damage to the cornea. May cause deep ulceration, bleaching and necrosis of the skin. Inhalation of high concentrations vapors can cause severe burns to the mouth and airways leading to the lungs.

No	CAS No	Common name and synonyms	IARC	ACGIH	Mutagenicity	Effect on reproduction
1	7647-01-0	Hydrogen chloride	3	A4	The data do not allow for an adequate assessment of mutagenic effects.	The data do not allow for an adequate evaluation of the effects on reproduction.

### Cancer classification under IARC (International Agency for Research on Cancer)

Group 1: carcinogenic to humans.

Group 2A: probably carcinogenic to humans.

Group 2B: possibly carcinogenic to humans.

Group 3: not classifiable as to its carcinogenicity to humans.

Group 4: probably not carcinogenic to humans.

### Cancer classification under ACGIH (American Conference of Governmental Industrial Hygienists)

Group A1: confirmed human carcinogen.

Group A2: suspected human carcinogen.

Group A3: confirmed animal carcinogen with unknown relevance to humans.

Group A4: not classifiable as a human carcinogen.

Group A5: not suspected as a human carcinogen.

## 12. Ecological information

No	CAS No	Common name and synonyms	%	Persistent	Bio-accumulation	Aquatic ecotoxicity
1	7647-01-0	Hydrogen chloride	10 to 30%	Not available	Not available	Not available

The real concentrations are retained as industrial secret.

No	CAS No	Common name and synonyms	%	Ecotoxicity for aquatic organisms-Short term	Ecotoxicity for aquatic organisms-Long term	Environmental effects
1	7647-01-0	Hydrogen chloride	10 to 30%	Not available	Not available	Not available

The real concentrations are retained as industrial secret.

### 13. Disposal considerations

**Methods of disposal:** The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

### 14. Transport information

	TDG	DOT	IMDG	IATA
UN number	1789	1789	1789	1789
Proper shipping name	Hydrochloric acid solution	Hydrochloric acid solution	Hydrochloric acid solution	Hydrochloric acid solution
Transport hazard class(es)	8	8	8	8
Packing group	II	II	II	II

**Other information**

**Marine pollutant:** Not applicable

**IMDG:** Not applicable

**Exemption for limited quantity:** 1L

In accordance with the Canadian Transport of Dangerous Goods regulations by Road, we use the 1.17 exemption when applicable.

**Special precautions:** Not applicable

**Other exemptions:**

### 15. Regulatory information

**Canada**

No	CAS No	Common name and synonyms	%	DSL	NSL	NPRI
1	7647-01-0	Hydrogen chloride	10 to 30%			

The real concentrations are retained as industrial secret.

**United-States**

No	CAS No	Common name and synonyms	%	TSCA	PROP-65	Right to Know
1	7647-01-0	Hydrogen chloride	10 to 30%			



The real concentrations are retained as industrial secret.

*All ingredients are listed on the EINECS or in compliance with the inventory*

*The customer is responsible for determining the PPE (personal protection equipment) code for this material.*

*The classification of the product and the SDS were developed in accordance with HPR.*

## 16. Other information

**Date:** 2020-05-21

**Version:** 1

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