SECTION 1: PRODUCT IDENTIFICATION

Product Name:	Durável ECP
Synonyms:	
Product Number:	10-ECP-1G (1-gallon jug), 10-ECP-5G (5-gallon pail)
Company:	Durável
Address:	225 Olympic St., Charlotte NC 28273
Business Phone:	(704) 837-7991
Emergency Phone:	Chemtrec US (800) 424-9300 CNN 1014580
Date of Current Revision:	August 19, 2024

SECTION 2: HAZARD IDENTIFICATION

Classification of the Substance or Mixture

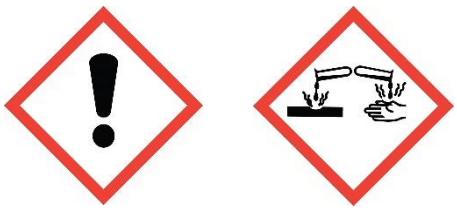
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Corrosive to Metals, H290	Category 1
Skin Corrosion/Irritation, H315	Category 2
Serious Eye Damage/ Eye Irritation, H319	Category 2A
Specific Target Organ Toxicity, Single Exposure; Respiratory Tract Irritation, H335	Category 3

EMERGENCY OVERVIEW: This product is a translucent orange liquid.

WARNING

Hazard Statements
H290 May be corrosive to metals.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.



Precautionary Statements

General

P102: Keep out of reach of children.
P103: Read carefully and follow all instructions.

Prevention

P234: Keep only in original container.
P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264+P265: Wash hands and arms thoroughly after handling. Do not touch eyes.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P302+P352: IF ON SKIN: wash with plenty of water and soap.
P304+P340: IF INHALED: Remove person to fresh air and keep 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.
P319: Get medical help if you feel unwell.
P332+P317: If skin irritation occurs: Get medical help.
P337+P317: If eye irritation persists: Get medical help.
P362+P364: Take off immediately all contaminated clothing and wash it before reuse.
P390: Absorb spillage to prevent material damage.

Storage

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

Disposal

P501: Dispose of contents and container in accordance with local/ regional/ national regulations.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Substance

This material is regulated as a solution

Chemical Name	CAS No.	Weight - %	Trade Secret
Hydrochloric Acid	7647-01-0	5-10%	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: FIRST-AID MEASURES

Description of First Aid Measures

General Advice Move out of the dangerous area. Consult a physician. Provide this Safety Data Sheet to the doctor in attendance.

Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/ doctor if you feel unwell.
Skin Contact	IF ON SKIN (or hair): Wash contact areas with plenty of soap and water. Remove contaminated clothing and shoes. Launder contaminated clothing before reuse. If skin irritation occurs: Get medical attention.
Eye Contact	IF IN EYES: Immediately flush eyes with plenty of water for 10 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. If irritation occurs, get medical assistance.
Ingestion	IF SWALLOWED: Do not induce vomiting. Call a physician immediately.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.

Specific hazards arising from the substance or mixture

Hydrogen chloride gas

Hazardous combustion products	Reactions with aluminum may generate flammable Hydrogen Chloride gas. Ambient fire may liberate hazardous vapors.

Explosion Data

Sensitivity to Mechanical Impact	Not available
Sensitivity to Static Discharge	Not available

Protective equipment and precautions for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel	Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Advice for emergency responders	Protective equipment see section 8.

Environmental Precautions

Environmental precautions	Do not let product enter drains.

Methods and material for containment and cleaning up

Methods for containment	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10).
Methods for cleaning up	Take up with liquid-absorbent and neutralizing material. Dispose of properly. Clean up affected area.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice for safe handling	Avoid contact with aluminum and other metals. Reactions with aluminum, particularly foil, may generate flammable hydrogen gas. Use, store, and transfer only with acid resistant plastic containers, DO NOT USE aluminum or any other metal container.
Hygiene Measures	Ensure good ventilation. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. Keep away from foodstuffs, beverages, and feed. Avoid contact with the eyes and skin.

Conditions for safe storage, including any incompatibilities

Storage Conditions	No metal containers. Tightly closed. Avoid contact with aluminum and other metals. Reactions with aluminum, particularly foil, may generate flammable hydrogen gas.

SECTION 8: EXPOSURE CONTROLS – PERSONAL PROTECTION

Control parameters

Ingredients with workplace control parameters

Chemical Name	Value	Control Parameters	Basis
Hydrochloric Acid 7647-01-1	C	2 ppm	USA. ACGIH Threshold Limit Values (TLV)
	C	5 ppm 7 mg/m3	USA. NIOSH Recommended Exposure Limits
	C	5 ppm 7 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	PEL	0.3 ppm 0.45 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
	C	2 ppm	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Appropriate engineering controls

Exposure Controls Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Individual protection measures, such as personal protective equipment

Eye and face protection Safety glasses.

Skin and body protection Wear gloves of adequate length to offer appropriate skin protection from splashes. Nitrile, Butyl and PVC gloves have been found to offer adequate protection for incidental contact. Non-absorptive boots.

Respiratory protection Required when vapors/aerosols are generated.

Control of environmental exposure Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	**Odor**	Cherry
Appearance	Transparent Liquid	**Odor Threshold**	No data available
Color	Orange		

Property	**Values**	**Remarks/Method**
pH	<1 at 20 °C (68 °F)	
Melting point/freezing point	-30 °C (-22 °F)	
Boiling point/Boiling range	> 100 °C > 212 °F - lit.	
Flash point	Not Applicable	
Evaporation rate	Not Available	
Flammability (solid, gas)	Not Available	
Flammability Limit in Air		
Upper flammability limit:	Not Available	
Lower flammability limit:	Not Available	
Vapor pressure	227 hPa at 21.1 °C (70.0 °F) 547 hPa at 37.7 °C (99.9 °F)	
Vapor density	Not Available	
Relative density	Not Available	
Water solubility	Soluble	
Solubility in other solvents	Not Available	
Partition coefficient	Not Available	
Autoignition temperature	Not Applicable	
Decomposition temperature	Not Available	
Kinematic viscosity	Not Available	
Dynamic viscosity	Not Available	
Explosive properties	Not Available	
Oxidizing properties	Not Available	

Other Information

Softening point	Not Relevant
Molecular weight	Not Available
VOC Content (%)	Not Applicable
Density	Not Available
Bulk Density	Not Available

SECTION 10: STABILITY AND REACTIVITY

Reactivity
Reactions with aluminum may generate flammable Hydrogen Chloride gas.

Chemical stability
The product is chemically stable under standard ambient conditions (room temperature).

Possibility of Hazardous Reactions
Reactions with aluminum may generate flammable Hydrogen Chloride gas.

Conditions to avoid
Avoid contact with aluminum and other metals.

Incompatible materials
Bases, Amines, Alkali metals, Metals, permanganates, for example potassium permanganate, Fluorine, metal acetylides, hexalithium disilicide

Hazardous Decomposition Products
In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects
Mixture – Acute Toxicity

Symptoms:	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
Symptoms:	Mucosal irritations, Cough, Shortness of breath Possible damages: damage of respiratory tract
Dermal:	No data available
Skin corrosion/ irritation	Mixture causes burns
Serious eye damage/ eye irritation	Mixture causes serious eye damage. Risk of blindness!
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available

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.
	NTP:	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
	OSHA:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
Reproductive toxicity	No data available	
Specific target organ toxicity - single exposure	Mixture may cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	No data available	
Aspiration hazard	No data available	

Additional Information
RTECS: MW4025000

Other dangerous properties cannot be excluded.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity
Mixture No data available

Persistence and degradability
No data available

Bioaccumulation
No data available

Mobility in Soil
No data available

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects
No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: TRANSPORTATION INFORMATION

DOT

UN/ID no.	1789
Proper Shipping Name	Hydrochloric Acid, Solution
Hazard Class	8
Packing Group	III
Reportable Quantity (RQ)	N/A
Poison Inhalation Hazard	No

IMDG

UN/ID no.	1789
Proper Shipping Name	Hydrochloric Acid, Solution
Hazard Class	8
Packing Group	III
EMS-No	F-A, S-B

IATA

UN/ID no.	1789
Proper Shipping Name	Hydrochloric Acid, Solution
Hazard Class	8
Packing Group	III

SECTION 15: REGULATORY INFORMATION

SARA 302 Components
This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

Component	CAS-No.	Revision Date
Hydrochloric Acid	7647-01-0	2013-02-08

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

Component	CAS-No.	Revision Date
Hydrochloric Acid	7647-01-0	2013-02-08

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Component	CAS-No.	Revision Date
Hydrochloric Acid	7647-01-0	2013-02-08

New Jersey Right To Know Components

Component	CAS-No.	Revision Date
Hydrochloric Acid	7647-01-0	2013-02-08

SECTION 16: OTHER INFORMATION

Issue Date November 1, 2022
Revision Date August 19, 2024

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Durável assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Durável assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety precautions are followed.

END OF SAFETY DATA SHEET