

Material Safety Data Sheet

Print date: 11/15/2006

Version: 1

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1. COMPANY AND PRODUCT IDENTIFICATION

Product name:

1.0N Hydrochloric Acid (HCI)

Product code:

TK-18

Supplier:

Quaker Chemical Corporation

Quaker Park One 901 Hector Street

Conshohocken, PA 19428

610-832-4000

E-mail: she@quakerchem.com

Emergency telephone number:

* 24 HOUR TRANSPORTATION: **CHEMTREC: 1-800-424-9300

703-527-3887 (Call collect outside of US)

* 24 HOUR EMERGENCY HEALTH & SAFETY:

**QUAKER CHEMICAL CORPORATION: (800) 523-7010(

Within US only)

Outside of US call (703) 527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Components	CAS No.	Weight %	OSHA Ceiling Limits	OSHA TWA (final):	ACGIH Ceiling Limits	ACGIH Exposure Limits: None	Vendor Exposure Limits:
Hydrochloric acid	7647-01-0	1 - 5%	5ppm 7mg/m³	None	2ppm		

3. HAZARDS IDENTIFICATION

Emergency Overview

The product causes burns of eyes, skin and mucous membranes.

Irritating to respiratory system.

Harmful if swallowed.

Signal word:

DANGER

Principle routes of exposure:

Eyes, skin and inhalation.

Eye contact:

Causes eye burns. Risk of serious damage to eyes.

Skin contact:

Causes skin burns.

Inhalation:

Avoid breathing vapors or mists. High gas, vapor, mist, or dust concentrations may

be harmful if inhaled. May cause irritation of respiratory tract.

Ingestion:

Ingestion causes burns of the upper digestive and respiratory tracts.

Physico-chemical properties:

No hazards resulting from material as supplied.

SDS code:

TK-18

Product name: 1.0N Hydrochloric Acid (HCI)

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Incompatible products:

Do not store near acids.

Safe storage temperature:

40-100°F

Shelf life:

6 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	ACGIH Ceiling Limits	ACGIH Exposure Limits:	OSHA Ceiling Limits	OSHA TWA (final):	NIOSH - Pocket Guide - TWAs:	Vendor Exposure Limits:
Hydrochloric acid	2ppm	None	5ppm 7mg/m³	None	5ppmCeiling 7mg/m³Ceilin	None

Engineering measures:

Ensure adequate ventilation.

Personal Protective Equipment

General:

Eye Wash and Safety Shower

Respiratory protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, a NIOSH/MSHA certified respirator with organic

vapor/P100 filter should be worn.

Hand protection:

Rubber gloves Impervious gloves

Skin and body protection:

Chemical resistant apron, Long sleeved clothing

Eye protection:

Goggles.

Hygiene measures:

Avoid contact with skin, eyes and clothing.





9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical state:

Liquid

Color:

Clear Bland

Odour: Boiling point/range (°C):

Solubility:

100

Boiling point/range (°F):

212

Vapour pressure:

Not determined Not determined

Vapour density:

Completely soluble

Evaporation rate:

Not determined <2

pH: Flash Point (°C):

NA

Flash point (°F):

NA

Decomposition temperature: Auto-ignition temperature:

Not determined Not determined

Density @ 15.5 ° C (g/cc):

1

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Aquatic toxicity:

Not Determined

Hydrochloric acid

Ecotoxicity - Fish Species Data

LC50 (Gambusia affinis - 96h) = 282 mg/L LC50 (Lepomis macrochirus - 48h) = 3.6 mg/L

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused

products:

Do not contaminate ponds, waterways or ditches with chemical or used container. Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

Contaminated packaging:

Do not re-use empty containers

Methods for cleaning up:

Soak up with oil absorbent material. After cleaning, flush away traces with water.

14. TRANSPORT INFORMATION

U. S. DEPARTMENT OF TRANSPORTATION:

UN/NA ID Number:

Proper shipping name:

Hazard Class

Subsidiary risk: Packing group:

RQ:

Emergency Response Guide Number:

DOT Label(s):

UN1789

Hydrochloric acid Mixture

11

157 R5

TDG (CANADA):

UN nr:

UN1789

Proper shipping name:

TDG Hazard Classification:

Subsidary class:

Packing group:

Hydrochloric acid

11

IMDG/IMO:

UN nr:

UN1789

Proper shipping name:

Class:

Hydrochloric acid

Subsidary class:

Packing group:

EMS:

11 8-03

Limited quantity:

500 mL

JATA/ICAO;

UN nr:

UN1789

Proper shipping name:

Subsidary class:

Packing group: Maximum quantity for cargo only:

Maximum quantity for passenger: Limited quantity:

Hydrochloric acid

11

30 L 1 L

0.5 L

Hydrochloric acid - 7647-01-0

CAA - 1990 Hazardous Air Pollutants: Clean Water Act - Hazardous Substances

Listed Listed

STATE REGULATIONS (RTK):

California Proposition 65 Status:

No components are listed

Hydrochloric acid - 7647-01-0

MARTK:

Listed

NJRTK: PARTK:

Listed

Listed

INVENTORY STATUS:

United States TSCA - Sect. 8(b) Inventory:

This product complies with TSCA

Canada DSL Inventory List -

This product complies with DSL

EC EINECS/ELINCS/NLP list:

This product complies with EINECS

16. OTHER INFORMATION

Sources of key data used to compile the data sheet:

Material safety data sheets of the ingredients.

Prepared by:

Quaker Chemical Corporation -Safety, Health and Environmental Affairs Group - US

Reason for revision:

New Format

HMIS classification:

NFPA rating:

Health:

3

H

Health:

Flammability:

Flammability:

0

Reactivity:

Reactivity:

1

Personal Protection:

Special:

NA

Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.

^{*} Indicates possible chronic heath effect