

Material Safety Data Sheet CRMC 2

Section 1. Chemical Product and Company Identification

Product Name CRMC2

Product Number NTA CRMC2

Manufacturer/ Supplier NuTech Specialties, Inc. 9811 So. 6150 W. West Jordan, UT 84088

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D.O.T. Emergency

Phone:

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Date of October 19, 2012

Preparation

October 19, 2012 **Revision Number** 1.0

Section 2. Hazards Identification

Emergency overview This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

DANGER!

Keep out of reach of children.

Keep container closed during storage. Ensure that eyewash stations and safety showers are proximal to the work-station location. S24/25- Avoid contact with skin and eyes.

Potential Acute Health

Effects

Corrosive to skin and eyes on contact, liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, Characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in

death.

Routes of Entry Eye Contact, Skin contact, Ingestion, INHALATION.

Eyes Corrosive! Vapors are irritating and may cause damage to the eyes. Contact may cause severe

burns and permanent eye damage.

Skin Acute exposure can cause burns and be destructive to skin

Inhalation Inhalation may severely burn respiratory Tract

Ingestion May cause irritation.

Medical conditions aggravated by exposure:

Prolonged exposure may result in skin burns and ulcerations. Severe over-exposure can

produce lung damage, choking, unconsciousness or death.

Potential Chronic Health Long-term exposure to concentrated vapors may cause erosion of teeth. Long term exposures

seldom occur due to the corrosive properties of the acid.

Carcinogenic Effects Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Target Organs

Environmental

Effects

Not available

Section 3. Composition and Information on Ingredients

Name CAS # % by Exposure Limits LCso/LD so

Weight

Hydrochloric Acid 7647-01-0 45% 5/5

The balance of components are proprietary and not considered hazardous

Section 4. First Aid Measures

Eve Contact Call physician immediately, preferably and ophthalmologist. Eye contact can result in corneal

damage or blindness. Immediately flush eyes with running water for at least 15 to 20 minutes, keeping eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue

rinsing eye. To alleviate pain until physician arrives 2 drops of 0.5% "Pontocaine" hydrochloride solution into eye. No oils or oily ointments should be used unless directed by

doctor.

Skin Contact Remove contaminated clothing and shoes. Wash gently and thoroughly the contaminated skin

with running water and non abrasive soap for 15 to 20 minutes. See a physician

Inhalation Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give

artificial respiration, preferably mouth to mouth if possible. If breathing is difficult, give oxygen. Call poison control center or seek medical attention if symptoms persist.

Ingestion Do not induce vomiting. Drink large quantities of water as soon as possible followed by milk

or 2 oz of milk magnesia to drink to soothe the burning effect. Do not give anything by mouth to an unconscious person Call physician immediately. NOTE TO PHYSICIAN: Probable

mucosal damage may contraindicate the use of gastric lavage.

General Advice In case of Accident or if you feel unwell, seek medical advice immediately (show label or

MSDS where possible).

Notes to Physician Not available

Section 5. Fire Fighting Measures

Flammability Non flammable

Fire Fighting Media and instructions

Not available

Products of Combustion Not available

Special Remarks on Fire Hazards

Product is non-Flammable, However, it can react with metals to produce hydrogen, a

flammable gas

Special Remarks on Explosion Hazards Product is non-Flammable, However, it can react with metals to produce hydrogen, a

flammable gas

Sensitivity to Mechanical Impact

Not available

Sensitivity to Static Discharge Not available

Protection of Fire Fighters

The amount of HCL vapor released from ruptured containers will be increased by heat. In such case full protective equipment might be needed. Usual fire and explosion hazards: Product is non-flammable; however it can react with metals to produce hydrogen, a flammable gas.

Section 6. Accidental Release Measures

Personal Precautions Face shield. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient;

consult a specialist BEFORE handling this product.

Methods for Containment Corrosive liquid. Avoid to runoff to sewers and waterways. Water protective clothing. Absorb

with inert material. Contact your local Emergency planning commission for further instructions. Absorb with an in inert material and put the spilled material in an appropriate

waste disposal.

Environmental Precautions

See Methods for Containment

Methods for Clean Up Do not breathe vapor, get in eyes, on skin, or on clothing. Keep personnel upwind of spil an do

not enter area unless equipped with full protective equipment and self contained breathing

apparatus.

Section 7. Handling and Storage

Precautions Keep locked up. Keep container dry. DO NOT INGEST. Do not breath the gas, fumes, vapor

or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or label. Avoid contact with skin and eyes. After handling, always wash

hands thoroughly with soap and water.

Incompatibility Strong alkalis, most metal, bleach. Alkalis incompatible with chlorinated solvents.

Incompatible with alcohols and wide variety of metals

Storage Corrosive materials should be stored in a separate safety storage cabinet or room. Not for use

or storage in or around the home. Keep out of reach of children. For Institutional and

Commercial Use

Keep out of reach of children.

Keep container closed during storage. Ensure that eyewash stations and safety showers are proximal to the work station location. S24/25- Avoid contact with skin and eyes.

Section 8. Exposure Controls/Personal Protection

Engineering Controls

Personal Protection Good general ventilation should be sufficient to control airborne levels.

Eyes Splash goggles or Face Shield.

Body Additional body garments are highly recommended to be used such as apron and rubber boots.

Respiratory Wear appropriate respirator when ventilation is inadequate.

Hands Impervious gloves

Protective Clothing (Pictograms)



Exposure Limits Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and

Appearance

Red Liquid

N/A

Molecular Weight

Ph 1

Boiling/Condensation

Point

123 F-183 F

Melting/Freezing Point N/A

Critical Temperature N/A

Instability Temperature N/A

Specific Gravity (H20 = 1): N/A

Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): 30mm HG @ 25 DOG C

Vapor Density (Air = 1) 1.3

Volatility N/A

VOC N/A

Evaporation Rate (H20 = 1): <1

Dispersion Properties N/A

Solubility Complete in water

The Product is:

Auto-ignition Temperature N/A

Flash Points N/A

Flammable Limits Not applicable

Fire Hazards in Presence Of Various Substances Product is non-Flammable, however, it can react with metals to produce hydrogen, a

flammable gas

Explosion Hazards in Presence of Various

Substances

Product is non-Flammable, however, it can react with metals to produce hydrogen, a

flammable gas

Odor Acidic
Color Red

Section 10. Stability and Reactivity Data

Stability The product is stable.

Incompatibility with Strong alkali materials and oxidizing agent, cyanide, sulfides, formaldehyde.

Hazardous Decomposition

Products

Will not occur.

Section 11. Toxicological Information

Routes of Entry Skin Contact. Ingestion. Eye Contact.

Toxicity to Animals Oral Rat DL50 900mg/kg

Acute Effects on Humans

Eyes May cause irritation

Skin Acute exposure can cause burns and be destructive to skin

Inhalation Inhalation may severely burn respiratory Tract

Ingestion May cause irritation.

Chronic Effects on

Humans

Long-term exposure to concentrated vapors may cause erosion of teeth. Long term exposures

seldom occur due to the corrosive properties of the acid.

Special Remarks on

Toxicity to Animals

No additional remark

Special Remarks on Chronic Effects on

Humans

No additional remark

Section 12. Ecological Information

Ecotoxicity This material is expected to be toxic to aquatic life

BOD5 and COD Not available

Products of Biodegradation

When released into the soil, this material is not expected to biodegrade. When released into the

soil, this material mat leak into groundwater.

Toxicity of the Products of

Biodegradation

Not available

Special Remarks on the

Products of Biodegradation Not available

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control

regulations.

Waste Stream Neutralize with lime and flush with water. Run off to sewer may create a hazard in the case of

large spills; notify authorities.

Section 14. Transport Information

DOT (U.S.A.) (Pictograms)



TDG Classification

PIN UN, Proper Shipping

Name, PG

Shipping Name: Corrosive liquids N.O.S. UNNA: 1760 PG: II

Maritime Transportation

Not a "marine pollutant"

Special Provisions for

Transport

Not available

Section 15. Regulatory Information and Pictograms

Regulatory Lists No products were found

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications HCS (U.S.A.) HCS Class: Corrosive Liquid. HCS Class: Toxic.

USA Regulatory Lists

ry This product does NOT contain components that are known to the state of California to Cause Cancer or Reproductive Harm at or above California

Prop 65 No Observable Effect Level (NOEL)

SARA 302 Extremely Hazardous Substances - Not listed

SARA 311 - 1. Immediate (acute) health hazard SARA 313 Toxic Chemical List – Listed

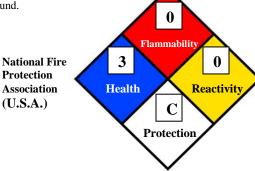
DSD (**EEC**) R22- Harmful if swallowed.

R35- Causes severe burns.

International Regulations Lists No Products were found.

Hazardous Material Information System (U.S.A.)





WHMIS (Classification)

WHMIS CLASS E: Corrosive Liquid. WHMIS CLASS D-1: Material causing immediate and serious toxic effects.

The Hazard Ranking systems presented on this MSDS sheet provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

Section 16. Other Information

Expiry Date 3 (Three Years) from the date of preparation indicated in Section 1.

Validated by Verified by

Printed

Information Contact

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Validated on

NuTech Specialties, Inc.