NAT URAL CHEMISTRY

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Metal Free - US

CAS # Mixture

Product use Deactivates iron, copper, and other trace metals. Prevents stains and water

discoloration.

Manufacturer Natural Chemistry, LLC

40 Richards Ave. Norwalk, CT 06854 US Phone: (800) 753-1233

Emergency Phone: CHEMTREC (800) 424-9300

2. Hazards Identification

Emergency overview CAUTION

MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.

Skin May cause irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes. Skin.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

OSHA Regulatory Status This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

Potential environmental effects See section 12.

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Acrylic copolymer	Proprietary	10 - 20
Citric Acid	77-92-9	0.1 - 1

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing.

Obtain medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation

persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

attention.

Ingestion Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is

convulsing. Obtain medical attention.

Notes to physician Symptoms may be delayed.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that

medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with

eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures Not flammable by OSHA criteria. Flammable properties Extinguishing media Suitable extinguishing media Dry chemical. Carbon dioxide. Water spray. Foam. Unsuitable extinguishing media Not available Protection of firefighters

Specific hazards arising from the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus.

Hazardous combustion products

Explosion data

Not available

Sensitivity to mechanical

impact

Storage

Not available

Sensitivity to static discharge

6. Accidental Release Measures

May include and are not limited to: Oxides of carbon.

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do Personal precautions not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Do not discharge into lakes, streams, ponds or public waters. **Environmental precautions** Stop leak if you can do so without risk. Prevent entry into waterways, sewers, Methods for containment

basements or confined areas.

Before attempting clean up, refer to hazard data given above. Small spills may be Methods for cleaning up absorbed with non-reactive absorbent and placed in suitable, covered, labelled

containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

7. Handling and Storage

Handling Use good industrial hygiene practices in handling this material.

Avoid contact with eyes and skin. Wash thoroughly after handling. Keep out of reach of children.

Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limits Ingredient(s) **Exposure Limits**

Acrylic copolymer **ACGIH-TLV** Not established **OSHA-PEL** Not established

Citric Acid **ACGIH-TLV** TWA: 10 mg/m3

> **OSHA-PEL** TWA: 10 mg/m3

Engineering controls General ventilation normally adequate.

Personal protective equipment

Wear safety glasses with side shields. Eye / face protection

Rubber gloves. Confirm with a reputable supplier first. Hand protection

Skin and body protection As required by employer code.

Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

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9. Physical and Chemical Properties

Clear **Appearance** Color Colorless Liquid **Form** Odor Mild

Odor threshold Not available Physical state Liquid 3.5 - 4.5На Not available Freezing point Not available **Boiling** point Not available Pour point Not available **Evaporation rate**

None Flash point

Auto-ignition temperature Not available Flammability limits in air, lower, % Not available

by volume

Flammability limits in air, upper, % Not applicable

by volume

Vapor pressure Not available Not available Vapor density 1.0516 Specific gravity Relative density 8.7752 Not available Octanol/water coefficient

10. Stability and Reactivity

Reactivity None known.

Possibility of hazardous reactions Hazardous polymerization does not occur. Chemical stability Stable under recommended storage conditions.

Conditions to avoid Do not mix with other chemicals. Caustics. Oxidizers. Reducing agents. Incompatible materials

Hazardous decomposition products May include and are not limited to: Oxides of carbon.

11. Toxicological Information

LC50

Component analysis - LC50

Ingredient(s)

Not available Acrylic copolymer Citric Acid Not available

Component analysis - Oral LD50

LD50 Ingredient(s)

Acrylic copolymer Not available

Citric Acid 5040 mg/kg mouse; 3000 mg/kg rat

Effects of acute exposure

Eye May cause irritation. Skin May cause irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Sensitization Non-hazardous by OSHA criteria. Non-hazardous by OSHA criteria. Chronic effects

CarcinogenicityNon-hazardous by OSHA criteria.MutagenicityNon-hazardous by OSHA criteria.Reproductive effectsNon-hazardous by OSHA criteria.TeratogenicityNon-hazardous by OSHA criteria.

Name of Toxicologically Synergistic Not available

Products

12. Ecological Information

EcotoxicityComponents of this product have been identified as having potential environmental

concerns.

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Citric Acid 77-92-9 96 Hr LC50 Lepomis macrochirus: 1516 mg/L [static]

Ecotoxicity - Water Flea - Acute Toxicity Data

Citric Acid 77-92-9 72 Hr EC50 Daphnia magna: 120 mg/L

Persistence / degradability

Bioaccumulation / accumulation

Mobility in environmental media

Environmental effects

Aquatic toxicity

Partition coefficient

Chemical fate information

Not available

Not available

Not available

13. Disposal Considerations

Disposal instructions Review federal, state and local government requirements prior to disposal.

Waste from residues / unused

products

Not available

Contaminated packaging Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

Yes

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely

hazardous substance

Section 311 hazardous chemical Yes

Clean Water Act (CWA) Not available

State regulations This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

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Country(s) or region Inventory name

On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

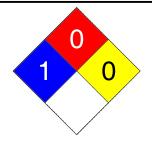
Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

Issue date
Effective date

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

07-Feb-2013 01-Feb-2013

Prepared by Dell Tech Laboratories Ltd. (519) 858-5021

Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first

page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.