

# **Material Safety Data Sheet** Wheel & Spoke Acid

# Section 1. Chemical Product and Company Identification

**Product Name** Wheel & Spoke Acid

**Product Number** NTA WSA

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

**Phone Number** (801) 253-1000 (Mon-Fri/8am-5pm MT)

**D.O.T. Emergency** 

Phone:

1-800-633-8253

Date of October 19, 2012

Preparation

**Revision Number** 1.0

#### Section 2. Hazards Identification

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

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 workstation 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.

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

Eyes Corrosive to the eyes. Liquid and mist can cause pain, and tearing, possible swelling of the

conjunctiva, and corneal destruction.

Skin Corrosive to the skin. Can cause severe chemical burns and possible ulceration.

Inhalation Inhalation may severely burn respiratory tract. Irritating to mucous membranes in the nose,

throat, and lungs. May cause coughing, chest pain, and difficulty in breathing, prolonged

exposure may result in tissue damage.

Ingestion Extremely corrosive to the mouth and throat. May result in severe chemical burns. May cause

coughing, choking, headaches, and dizziness. Can cause severe abdominal pain, nausea,

vomiting, and possible collapse.

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

produce lung damage, choking, unconsciousness or death.

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

**Target Organs** 

**Environmental** 

**Effects** 

Not available.

Section 3	Composition	and Inform	nation on	Ingradiants
Section 3.	Composition	and inform	nation on	Ingreatents

Name	CAS#	% by Exposure Limits Weight	LC50/LD 50
Ammonium Hydrogen Fluoride	7664-39-3	Proprietary	3 PPM
Phosphoric Acid	7664-38-2	Proprietary	1 MG/M3
Sulfuric Acid	7664-95-9	Proprietary	
Glycol Ether EB	111-76-2	Proprietary	

#### Section 4. First Aid Measures

Eye Contact Eye contact can result in corneal damage or blindness. Call a poison control center or SEEK

IMMEDIATE MEDICAL ATTENTION. 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. Repeat once or twice at 15 minute intervals. To alleviate pain until physician arrives add 2 drops of 0.5% "Pontocaine" (Withrop Lab) Hydrochloride solution into eyes. 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. Call a poison control center or

SEEK IMMEDIATE MEDICAL ATTENTION.

**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 Call a poison control center IMMEDIATELY for treatment advice. Have conscious person sip

a glass of water if able to swallow. DO NOT induce vomiting unless instructed to do so by poison control center or doctor. DO NOT give anything by mouth to an unconscious person 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 Not to be considered a fire hazard

Fire Fighting Media and instructions

Water spray, Foam, Carbon Dioxide

**Products of Combustion** Not available

Special Remarks on Fire

Hazards

The amount of vapor released form ruptured containers will be increased by heat. In such case full protective equipment may be needed. Product is non-Flammable, However, it can react

with metals to produce hydrogen, a flammable gas

Special Remarks on Explosion Hazards

The amount of vapor released form ruptured containers will be increased by heat. In such case full protective equipment may be needed. Product is non-Flammable, However, it can react

with metals to produce hydrogen, a flammable gas

Sensitivity to Mechanical Impact None

Sensitivity to Discharge

None

Protection of Fire Fighters See special remarks on Fire Hazards

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** 

Neutralize with lime and flush with water. Runoff to sewer may create a hazard in the case of

large spills; Notify authorities.

Methods for Clean Up DO NOT breathe vapor, get in eyes, on skin, or on clothing. Keep personnel upwind of spill

and DO NOT enter area unless equipped with full protective equipment and self contained

breathing apparatus.

Section 7. Handling and Storage

**Precautions** Store in well ventilated building or sheds. Protect against heat and physical damage. DO NOT

get in eyes, no skin, on clothing. DO NOT breathe vapor. Keep container closed. Wash thoroughly after handling. Keep locked up. Keep container dry. DO NOT INGEST. Do not breathe 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. Eye wash fountain and

safety shower highly recommended.

Eyes Chemical safety splash goggles and Face Shield

**Body** Rubber boots, in considerable exposure a full rubber suit should be used. Also additional body

garments should be used based upon the task being performed (e.g., sleevelets, apron,

gauntlets, disposable suits) to avoid exposed skin surfaces.

**Respiratory** Wear appropriate U.S. Bureau of mines approved respirator.

Ventilation Requirements None for normal use. Self-contained breathing apparatus for severe exposure

Hands Impervious gloves

Protective Clothing (Pictograms)



**Exposure Limits** 

Phosphoric Acid: Oral (Rat) 1530 mg/kg Ammonium Bifluoride: LD50-not found

Consult local authorities for acceptable exposure limits.

#### Section 9. Physical and Chemical Properties

**Physical State and** 

Appearance

Clear Liquid

Molecular Weight

N/A

Ph

0.5 to 1.0

**Boiling/Condensation** 

Point

212 F

**Melting/Freezing Point** 

None above 32 F

**Critical Temperature** 

Non applicable

**Instability Temperature** 

Not applicable

**Specific Gravity** 

(H20 = 1): 1.09

**Vapor Pressure** 

(Non-Aerosols)(mm Hg and Temperature): N/A

Vapor Density

(Air = 1)

Volatility

N/A

VOC

N/A

**Evaporation Rate** 

(H20 = 1): N/A

**Dispersion Properties** 

N/A

**Solubility** 

Complete in water

The Product is:

Non-Flammable, Acidic Liquid

**Auto-ignition** 

Temperature

N/A

**Flash Points** 

Non-Flammable

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

Clear

Section 10. Stability and Reactivity Data

**Stability** The product is stable.

Incompatibility with Various Substance

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

Incompatible with alcohols and wide variety of metals

**Hazardous Decomposition** 

**Products** 

Will not occur.

Section 11. Toxicological Information

Routes of Entry Skin Contact. Ingestion. Eye Contact.

Toxicity to Animals Oral (Rat) LD50 1530 mg/kg (Phosphoric Acid)

**Acute Effects on Humans** 

Eyes Corrosive to the eyes. Liquid and mist can cause pain, and tearing, possible swelling of the

conjunctiva, and corneal destruction.

Skin Corrosive to the skin. Can cause severe chemical burns and possible ulceration

**Inhalation** Inhalation may severely burn respiratory tract. Irritating to mucous membranes in the nose,

throat, and lungs. May cause coughing, chest pain, and difficulty in breathing, prolonged

exposure may result in tissue damage.

Ingestion Extremely corrosive to the mouth and throat. May result in severe chemical burns. May cause

coughing, choking, headaches, and dizziness. Can cause severe abdominal pain, nausea,

vomiting, and possible collapse

**Chronic Effects on** 

Humans

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

produce lung damage, choking, unconsciousness or death.

Special Remarks on Toxicity to Animals No additional remark

Special Remarks on Chronic Effects on

Humans

No additional remark

**Section 12. Ecological Information** 

Ecotoxicity No information found

BOD5 and COD Not available

Products of Possibly hazardous short term degradation products are not likely. However, long term

**Biodegradation** degradation products may arise.

**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 Not available

# **Section 14. Transport Information**

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



**TDG Classification** 8

PIN UN, Proper Shipping

Name, PG

Shipping Name: UN 1760, Corrosive liquid, NOS (Sulfuric Acid) 8, PGII ERG 154

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

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 - Not 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.)



National Fire Protection Association (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.

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**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.