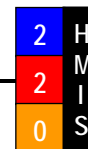




**MATERIAL SAFETY DATA SHEET**



NAME: **SAN-ACID I**

PRODUCT # 808201

**1. PRODUCT AND COMPANY IDENTIFICATION**

**EMERGENCY RESPONSE INFORMATION:**

Company Offices:	812-273-6000	Weekdays
CHEMTREC:	800-424-9300	24-Hour Service
Steven T. Hale:	812-265-2703	Evenings and Weekends
David R. Goodman, Jr.:	812-273-6213	Evenings and Weekends

PREPARED DATE: 05-18-01

PREPARED BY: Marjorie E. Hare

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** Greenish-amber liquid with an alcohol odor. Hazard to humans and domestic animals. Corrosive. Causes eye damage and skin irritation. Harmful if swallowed.

**POTENTIAL HEALTH EFFECTS:**

**EYES:** Causes irritation.

**SKIN:** Causes irritation.

**INGESTION:** Harmful if swallowed.

**INHALATION:** May cause nasal and respiratory irritation.

**CHRONIC EFFECTS / CARCINOGENICITY:** This material contains no ingredient above de minimus concentrations known or suspected to cause cancer.

**POTENTIAL ENVIRONMENTAL EFFECTS:** This material contains dodecylbenzene sulfonic acid, a substance listed under CERCLA. A release of 1,000 pounds of dodecylbenzene sulfonic acid is reportable to the National Response Center at 800-424-8802. This material contains phosphoric acid, a substance listed under CERCLA. A release of 5,000 pounds of phosphoric acid is reportable to the National Response Center at 800-424-8802.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>COMPONENT</u>	<u>SYNONYM</u>	<u>CAS NO.</u>	<u>% BY WEIGHT</u>
Phosphoric acid	Orthophosphoric acid	7664-38-2	50
Dodecylbenzene sulfonic acid	None	27176-87-0	15
Isopropyl alcohol	2-hydroxypropane	67-63-0	10

**4. FIRST AID MEASURES**

**EYES:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. For eyes, call a physician.

**SKIN:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before reuse.

**INGESTION:** If swallowed, promptly drink a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Call a physician immediately. Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**INHALATION:** No specific treatment is necessary since the material is not likely to be hazardous by inhalation. If exposed to excessive levels of fume or dust, remove to fresh air and get medical attention if cough or other symptoms develop.

**SIGNS AND SYMPTOMS OF EXPOSURE:** Contacted areas may exhibit irritation and can be burned if not flushed immediately.

**PRIMARY ROUTE(S) OF ENTRY:** Eyes, skin, mucous membranes, ingestion.



# MADISON CHEMICAL CO., INC.

3141 Clifty Drive • Madison, IN 47250

NAME:

## SAN-ACID I

PRODUCT # 808201

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE PROPERTIES:** FLASH POINT (Method used): 133°F. (TCC)  
FLAMMABLE LIMITS:  
LEL: N.D.  
UEL: N.D.

**EXTINGUISHING MEDIA:** As appropriate for surrounding fire.

**FIRE FIGHTING INSTRUCTIONS:** Moderate explosion hazard if exposed to heat and flames. May emit toxic fumes of sulfur oxides and phosphorus oxides with high heat.

### 6. ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Carefully neutralize with soda ash or sodium bicarbonate, or flood area with large quantities of water; wash to sewer if in accordance with local, state and federal regulations.

### 7. HANDLING AND STORAGE

**PRECAUTIONS:** Corrosive liquid. Do not store near heat or open flames. Avoid contamination of food and feedstuff. Keep container closed when not in use. Do not store below 0°F. or above 100°F. for extended periods.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Local exhaust recommended.

**RESPIRATORY PROTECTION:** Use NIOSH / MSHA approved inorganic acid vapor respirator for mists where airborne exposure is excessive.

**SKIN PROTECTION:** Impermeable type. Rubber apron and rubber boots required. Other equipment as required to avoid contact.

**EYE PROTECTION:** Goggles or goggles and faceshield necessary.

**GENERAL HYGIENE CONSIDERATIONS:** Eyewash facility and emergency shower should be in close proximity.

#### EXPOSURE GUIDELINES:

<u>CHEMICAL IDENTITY</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Phosphoric acid	7664-38-2	1 mg / M <sup>3</sup>	1 mg / M <sup>3</sup>
Dodecylbenzene sulfonic acid	27176-87-0	N.E.	N.E.
Isopropyl alcohol	67-63-0	400 ppm	400 ppm

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE & ODOR:** Greenish-amber liquid with an alcohol odor.

**BOILING POINT (°F.):** 226

**VAPOR PRESSURE (mm Hg):** N.D.

**VAPOR DENSITY (Air = 1):** N.D.

**SOLUBILITY IN WATER:** Complete.

**FLASH POINT (Method used):** 133°F. (TCC)

**LEL:** N.D.

**UEL:** N.D.

**SPECIFIC GRAVITY (WATER = 1):** 1.32

**PERCENT VOLATILE BY VOLUME (%):** 10.0 maximum

**EVAPORATION RATE (\_\_\_\_\_ = 1):** N.D.

**pH (1 oz / 5 gal):** 2.5

### 10. STABILITY AND REACTIVITY

**STABILITY:** Material is stable.

**INCOMPATIBILITY (Materials to Avoid):** Reducing agents, alkaline materials, strong oxides, chlorinated products.

**CONDITIONS TO AVOID:** High temperatures, sparks or open flames.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May give off sulfur oxides and phosphorus oxides with high temperatures. There is no hazardous decomposition under normal circumstances.

**HAZARDOUS POLYMERIZATION:** Will not occur.

N.A. = Not Available

N.D. = Not Determined

N.E. = None Established

N.R. = Not Relevant



# MADISON CHEMICAL CO., INC.

3141 Clifty Drive • Madison, IN 47250

NAME:

## SAN-ACID I

PRODUCT # 808201

### 11. TOXICOLOGICAL INFORMATION

This material, as a whole, has not been tested. This material contains no ingredient above de minimus concentrations known or suspected to cause cancer.

### 12. ECOLOGICAL INFORMATION

This material contains no hazardous air pollutants (HAPS). This material contains phosphoric acid, a substance listed under CERCLA. A release of 5,000 pounds of phosphoric acid is reportable to the National Response Center at 800-424-8802. This material contains dodecylbenzene sulfonic acid, a substance listed under CERCLA. A release of 1,000 pounds of dodecylbenzene sulfonic acid is reportable to the National Response Center at 800-424-8802.

### 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Do not reuse containers. Triple rinse, puncture and dispose of containers in a sanitary landfill or by incineration. Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

### 14. TRANSPORTATION INFORMATION

**DOT PROPER SHIPPING DESCRIPTION:** UN2924, Flammable liquids, corrosive, n.o.s., (contains isopropyl alcohol and phosphoric acid), 3, PG III, ERG# 132

### 15. REGULATORY INFORMATION

**TSCA STATUS:** All ingredients are listed on the TSCA inventory.

**CERCLA REPORTABLE QUANTITY:** 5,000 pounds for phosphoric acid (approximately 909 gallons of **SAN-ACID I**)  
1,000 pounds for dodecylbenzene sulfonic acid (approximately 606 gallons of **SAN-ACID I**).

<b>SARA 311 / 312 HAZARD CLASSES:</b>	<input checked="" type="checkbox"/> Acute Health	<input type="checkbox"/> Chronic Health
	<input checked="" type="checkbox"/> Fire	<input type="checkbox"/> Reactive
	<input type="checkbox"/> Sudden Release of Pressure	

**SARA 312 INFORMATION:** Storage of 10,000 pounds or more requires filing a Tier 2 form. This material is not an extremely hazardous substance (EHS). Threshold planning quantity is 10,000 pounds.

**SARA 313 INFORMATION:** This material contains the following substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<u>CHEMICAL NAME</u>	<u>CATEGORY CODE</u>	<u>CAS NO.</u>	<u>% BY WEIGHT</u>
None			

#### STATE REGULATORY INFORMATION:

**CALIFORNIA (PROPOSITION 65):** California has not identified the ingredients listed in Section 3 as known to cause cancer or reproductive toxicity.

### 16. OTHER INFORMATION

**MSDS STATUS:** Revised to ANSI Standard Format on 05-18-01.

**PRECAUTIONARY LABELING:** **DANGER!** Hazard to humans and domestic animals.  
Corrosive.  
Causes eye damage and skin irritation.  
Harmful if swallowed.

**FOR INDUSTRIAL USE ONLY – KEEP OUT OF THE REACH OF CHILDREN**

# MATERIAL SAFETY DATA SHEET

Thank you for your interest in, and use of, this product. This product and all others supplied by Madison Chemical Co., Inc. can be used safely with proper protective equipment and proper handling practices consistent with label instructions and the MSDS. Before using any of this product, be sure to read the complete label and the Material Safety Data Sheet.

## TERMS AND ABBREVIATIONS

Listed by Section

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

**HMS:** - Hazardous Materials Identification System codes are a system developed by the National Paint and Coatings Association for rating the hazard potential of a chemical under normal workplace conditions. These risk assessments are indicated by a numerical rating given in each of three (3) hazard areas (Health / Flammability / Physical Hazard) ranging from a low of zero to a high of 4.

### SECTION 2 – HAZARDS IDENTIFICATION

Chronic Effects are adverse effects that are most likely to occur from repeated exposure over a long period of time. A Carcinogen is a chemical listed by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or the Occupational Safety and Health Administration (OSHA) as a definite or possible human cancer causing agent.

Potential Environmental Effects: Chemicals listed in this section have a CERCLA RQ, are considered a toxic chemical listed under SARA Section 313, or have other known environmental hazards.

**CERCLA** – Comprehensive Environmental Response, Compensation and Liability Act of 1980. This Act designates a Reportable Quantity (RQ) for hazardous substances and provides the notification requirements for releases or spills.

**SARA** Section 313 – Superfund Amendments and Reauthorization Act aka Emergency Planning and Community Right to Know Act (EPCRA)

### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical substances are listed that are determined to be potential health or physical hazards based on the criteria established in the OSHA Hazard Communication Standard – 29 CFR 1910.1200.

**Chemical Abstract Services (CAS) Number** – A universally accepted numbering system for chemical substances.

### SECTION 4 – FIRST AID MEASURES

These are considered **EMERGENCY** procedures only; the exposed person should be examined by a physician as soon as possible. The Signs and Symptoms of Exposure listed here are **ACUTE** effects of the product. An Acute Effect is an adverse effect on the human body from a single exposure with symptoms developing almost immediately after exposure or within a relatively short time.

### SECTION 5 – FIRE FIGHTING MEASURES

Flash Point refers to the temperature at which a liquid will give off enough flammable vapors to form an ignitable mixture with air near the surface of the liquid or within the test vessel. Flammable Limits refer to the range of gas or vapor concentration (as % by volume in air) which will burn or explode if an ignition source is present. **LEL** – Lower Explosive Limit; **UEL** – Upper Explosive Limit

### SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

**MSHA** – Mine Safety and Health Administration. **NIOSH** – National Institute for Occupational Safety and Health

The Time Weighted Average (TWA) is the airborne concentration at which most workers can be exposed without any expected adverse effects.

**ACGIH** – American Conference of Governmental Industrial Hygienists

**TLV** – Threshold Limit Value - A set of time weighted average exposure limits, established by ACGIH, for a normal 8-hour day and a 40-hour work-week.

**OSHA** – Occupational Safety and Health Administration

**PEL** – Permissible Exposure Limit – A set of time weighted average exposure values, established by OSHA, for a normal 8-hour day and a 40-hour work-week.

**CEILING LIMIT** – The concentration that should not be exceeded in the workplace during any part of the working exposure.

**SKIN** – Skin contact with substance can contribute to overall exposure.

**THORACIC FRACTION** – Applicable for those materials that are hazardous when deposited anywhere within the lung airways and the gas-exchange region.

**STEL** – Short Term Exposure Limit – Maximum concentration for a continuous 15 minute exposure period.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

*All physical properties listed on MSDS are typical values not specifications!*

**BOILING POINT** – The approximate boiling point of liquids.

**VAPOR PRESSURE** – This refers to the pressure (usually measured in millimeters of mercury) of a vapor in equilibrium with its liquid form.

**VAPOR DENSITY** – This refers to the relative weight of a vapor or gas compared with an equal volume of air. As compared with air which is set at 1, vapors with less density or weight will rise and those with greater density or weight will sink.

**SOLUBILITY IN WATER** – A description of the amount of the product capable of dissolving in water.

**SPECIFIC GRAVITY** – This refers to the ratio of the density of the material to the density of water where water = 1.

**PERCENT VOLATILE BY VOLUME** – The percent of a liquid that evaporates at 65°F. to 75°F.

**EVAPORATION RATE** – Refers to the rate of change from the liquid state to the vapor state at ambient temperature and pressure in comparison to a given substance (e.g. water).

**pH** – A value representing the acidity or alkalinity of an aqueous solution (Highly Acidic pH = 1; Neutral pH = 7; Highly Alkaline pH = 14).

## SECTION 10 – STABILITY AND REACTIVITY

**STABILITY** – This is to indicate stability under reasonably foreseeable conditions of storage, use or misuse.

**INCOMPATIBILITY** – Keep product away from listed substances or conditions to prevent hazardous reactions.

**CONDITIONS TO AVOID** – List of conditions that should be avoided for reasons of safety and performance.

**HAZARDOUS DECOMPOSITION PRODUCTS** – Breakdown products expected to be produced upon product decomposition by extreme heat or fire.

**HAZARDOUS POLYMERIZATION** – This indicates the tendency of the product's molecules to combine with themselves in a chemical reaction releasing excess pressure and heat.

## SECTION 11 – TOXICOLOGICAL INFORMATION

Listed are any known chronic or carcinogenic data on specific ingredients.

## SECTION 12 – ECOLOGICAL INFORMATION

Listed are any ingredients that have a CERCLA RQ and any ingredients that are listed under the Clean Air Act Amendments of 1990. The Act required EPA to establish regulations setting emission standards for Hazardous Air Pollutants (HAPS). If the product contains an ingredient listed under SARA Section 313 that is also stated here.

## SECTION 14 – TRANSPORTATION INFORMATION

**DOT** (Department of Transportation) shipping description for the product.

## SECTION 15 – REGULATORY INFORMATION

**TSCA Status** – Toxic Substances Control Act – A federal law requiring all commercial chemical substances to appear on an inventory maintained by the EPA.

**CERCLA Reportable Quantity** – The amount of the specific ingredient that, when released into the environment must be reported to the National Response Center, and other regulatory agencies.

**SARA 311 / 312 Hazard Classes** – The appropriate characteristics have an X in front of all that apply.

**SARA 312 INFORMATION** – All storage of 10,000 pounds or greater of non-Extremely Hazardous Substances (EHS) requires filing a Tier 2 form. Substances which are designated in SARA Title III to be Extremely Hazardous Substances will have a much lower threshold planning quantity. These reports go to emergency planning agencies.

**SARA 313 INFORMATION** – An ingredient listed in this section is subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. (Code of Federal Regulations).