

SAFETY DATA SHEET

Section 1: Product and Manufacturer Identification

Manufactured By:

Beta Technology, Inc.
16810 Barker Springs Road
Houston, Texas 77084
Phone: (281) 647-9700
Emergency Phone: 800-535-5053

Product Name:

Dissolve - Industrial Drain Solution

Product/Formula Code:

2000-Q

Section 2: Hazards Identification

GHS Classification:

Skin Corrosion: Category 1A
Serious Eye Damage: Category 1

GHS Label Element:

Hazard Pictograms:



Corrosive



Toxic

Signal Word: Danger

Hazard Statements:

H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H350 May cause cancer

Precautionary Statements:

P202 Do not handle until all safety precautions have been read and understood
P280 Wear protective gloves/protective clothing/eye protection/face protection
P260 Do not breath vapors or mist
P264 Wash face, hands and any exposed skin thoroughly after handling
P305 + P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P303 + 353 + 361 IF ON SKIN (or hair): Rinse skin with water/shower. Take off immediately all contaminated clothing.
P301 + 311 IF SWALLOWED: Call a POISON CENTER or doctor.

Section 3: Composition/Information on Ingredients

Name of Hazardous Ingredient(s)	CAS #	%
Sulfuric Acid, Oil of vitriol	7664-93-9	> 50%

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Section 4: First Aid Measures

- Eye Contact:** Immediately flush eyes with cool running water for a minimum of 15 minutes. Check for and remove contact lenses. Hold eyelids away from eye while continuing to flush with water. Get medical help immediately.
- Skin Contact:** Immediately flush skin with running water for a minimum of 20 minutes. Start flushing while removing contaminated clothing and shoes. If burning or irritation persists, then continue to flush with water and get medical help. Do not apply any ointments to affected skin unless directed by a physician. Discard heavily contaminated clothing and shoes. Otherwise launder clothes in a separate wash before reuse.
- Inhalation:** Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. If breathing is difficult, give oxygen and get medical help immediately.
- Ingestion:** DO NOT INDUCE VOMITING. If victim is alert and not convulsing, rinse mouth with water and give 1/2 to 1 glass of water to dilute material. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitous. IMMEDIATELY contact physician or poison control center.

Section 5: Fire Fighting Measures

- Flammability of Product:** Product is not flammable
- Fire Hazards:** If product is released it can react with metals which may liberate hydrogen gas. Hydrogen gas can form an explosive/flammable mixture if concentrated with air. Product reacts violently with water with the evolution of heat.
- Hazardous Decomposition Products:** Thermal decomposition products include sulfur oxides, nitrogen oxides.
- Fire Fighting Procedures:** Wear protective clothing and gear with self-contained breathing apparatus. Cool containers of product with water spray. Do not release runoff from fire to sewers or waterways.

Section 6: Accidental Release Measures

- Personal Precautions:** Do not touch or walk through spilled material. Ventilate area. Wear appropriate respirator when ventilation is inadequate, and put on appropriate protective equipment before handling material, (see section 8 for appropriate respirator and PPE).
- Spill Clean Up:** Absorb spill with an inert material and place into plastic waste container. Wash floors and other contaminated surfaces with a neutralizing solution (soda ash or lime). Rinse surfaces with fresh water. Ensure adequate decontamination of equipment following clean-up. Dispose of spill material and clean-up solutions according to all federal, state and local regulations.

Section 7: Handling and Storage

- Handling:** Do not ingest. Do not get into eyes or on skin or clothing. Do not breath fumes or vapor spray. Use only with adequate ventilation. Do not use or mix with other chemicals. Do not reuse the empty product container. Wash thoroughly after handling this product. Observe all of the label precautions.
- Storage:** Keep containers tightly closed. Keep containers or cases of product in well-ventilated warehouse at storage temperatures between 40°F (4°C) and 100°F (38°C). Keep all food and drink away. Keep out of the reach of children.

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Section 8: Exposure Controls, Personal Protection

CAS #	Ingredient Name	List	Type	Value
7664-93-9	Sulfuric Acid, Oil of vitriol	OSHA ACGIH	PEL (U.S.) TLV (U.S.)	TWA: 1 mg/m ³ - 8 hrs (mist) TWA: 0.2 mg/m ³ - 8 hrs

Hygiene Measures: Ensure that eyewash stations and safety showers are close to the work location. Wash hands, forearms and face thoroughly after handling this product, and before eating, smoking or using the lavatory.

Respiratory Protection: Provide exhaust ventilation to keep airborne concentrations of the vapor below the threshold limit value. If ventilation is inadequate, then operator should wear a NIOSH/MSHA approved air-purifying respirator equipped with an acid gas/fume mist cartridge for vapor concentrations up to 10 mg/m³.

Eye Protection: Chemical splash goggles or face shield is recommended when handling this product. Eye protection is advised even when handling a closed (capped) container.

Skin Protection: Chemical resistant gloves, apron and sleeves are recommended when handling this product. Gloves, aprons, etc. are recommended even while handling closed containers.

Section 9: Physical and Chemical Properties

Physical State	Liquid (Oily Liquid)	Color	Brown
Odor	Odorless	Molecular Weight	98 g/mol
pH	< 1	Specific Gravity	1.84 (Water = 1.0)
Vapor Pressure	0.1 kPa (1 mm Hg)@20C	Solubility	Miscible in water

Section 10: Stability and Reactivity

Chemical Stability: Product is stable

Incompatibility: Product is reactive or incompatible with reducing agents/chemicals, organics, metals and alkalies. Product reacts vigorously with water. Never pour water into the concentrated acid.

Hazardous Polymerization: Will not occur under normal conditions of storage and use.

Hazardous Decomposition: Sulfur oxide vapors (SO₂, SO₃) may be released when sulfuric acid decomposes.

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Section 11: Toxicological Information

Acute Toxicity

Product/Ingredient	Result	Species	Dose
Sulfuric acid	LD50 Oral	Rat	2140 mg/kg

Accute Health Effects:

- Eye Contact:** Corrosive to the eyes. Short term eye exposure may cause severe and permanent injury or blindness.
- Skin Contact:** Corrosive to the skin. Skin contact may cause skin inflammation, blistering, chemical burns.
- Ingestion:** Very hazardous if ingested. May be fatal if swallowed. May cause burns to mouth, throat and stomach.
- Inhalation:** Breathing vapors of mist from product may produce severe irritation of the respiratory tract, characterized by coughing, choking or shortness of breath. Overexposure to mists or vapors may produce lung damage, unconsciousness or death.

Chronic Health Effects:

Substance may be toxic to upper respiratory tract, skin, eyes and teeth. Repeated or prolonged exposure can produce chronic eye irritation, skin irritation and respiratory irritation (leading to frequent bronchial infections). Repeated exposure may cause a general deterioration of health by an accumulation in one or more organs.

Carcinogenic Effects:

Inhalation of spray mists can cause cancer. Classified 1 (Proven for humans) by IARC - Sulfuric Acid Mists.

Section 12: Ecological Information

Ecotoxicity: Information not available

Biodegradable/OECD: Information not available

Section 13: Disposal Considerations

Waste Disposal The generation of waste should be avoided or minimized whenever possible. Dispose of non-recyclable waste material via a licensed waste disposal contractor. Disposal of this product or any resulting waste stream should comply with all federal, state and local environmental control regulations.

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Section 14: Transport Information

Regulatory Information	UN Number	Proper Shipping Name	Classes	PG	Additional Information
DOT Classification	UN1830	Sulfuric Acid	8	II	Reportable Quantity 1000 lbs (454 Kg) Limited Quantity Yes Packaging Instructions Passenger Aircraft Quantity Limitation: Forbidden Cargo Aircraft Quantity Limitation: 30 L

Section 15: Regulatory Information

U.S. Federal Regulations

U.S. Inventory (TSCA): All components are listed or exempted
SARA 302/304/311/312 Extremely Hazardous Substances: Sulfuric Acid
SARA 302/304 Emergency Planning and Notification: Sulfuric Acid
SARA 313 Form R Reporting Requirements: Sulfuric Acid
Clean Water Act (CWA) 311: Sulfuric Acid RQ - 1000 Lbs
Clean Air Act (CAA) 112 Regulated Toxic Substances: No products were found

State Regulations

California Prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Strong inorganic mists containing sulfuric acid.

Section 16: Other Information

The health and safety hazards and the safety/ handling information presented in this SDS represents the best information currently available to PCI. PCI, Inc. makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and assumes no liability resulting from its use. Each user should read the SDS and consider the information in the context of how this product will be handled and used in the workplace including its use in conjunction with other products. If more information is needed to ensure that an appropriate risk assessment can be made, users should conduct their own investigations.

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