

SAFETY DATA SHEET

According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

SECTION 1: Identification

Product identifier Product name	DAA Deerset #4		
	PAA Reagent #1		
Product number	R-0925; R-0925-PL		
Recommended use and restrictions	To be used in accordance with manufacturer instructions or under the direct guidance of the manufacturer.		
Manufacturer	Taylor Technologies, Inc. 31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340 Emergency phone: (800) 837-8548		
CTION 2: Hazard(s) Identifie	cation		
Physical hazards	Corrosive to metals	Category 1	
Health hazards	Eye damage/irritation	Category 1	
	Skin corrosion/irritation	Category 1B	
Environmental hazards	Not currently regulated by OSHA. For	additional information, refer to section 12 of the SDS.	
Signal word	Danger		
Hazard statements	6	evere skin burns and serious eye damage.	
•	May be corrosive to metals. Causes se		
Hazard statements	May be corrosive to metals. Causes se Do not breathe dust or mists. Wash sk	in thoroughly after handling. Wear protective	
Hazard statements Precautionary statements	May be corrosive to metals. Causes see Do not breathe dust or mists. Wash sk gloves/protective clothing/eye protection in original container. IF SWALLOWED: Rinse mouth. Do NO Immediately take off all contaminated of clothing before reuse. IF INHALED: Re- breathing. Immediately call a physician with water for several minutes. Remov	in thoroughly after handling. Wear protective on/face protection if contact is likely to occur. Keep onl OT induce vomiting. IF ON SKIN (OR HAIR): clothing. Rinse skin with water. Wash contaminated emove person to fresh air and keep comfortable for	
Hazard statements Precautionary statements Prevention	May be corrosive to metals. Causes see Do not breathe dust or mists. Wash sk gloves/protective clothing/eye protection in original container. IF SWALLOWED: Rinse mouth. Do NO Immediately take off all contaminated of clothing before reuse. IF INHALED: Re breathing. Immediately call a physician with water for several minutes. Remove rinsing. Immediately call a physician of material damage.	in thoroughly after handling. Wear protective on/face protection if contact is likely to occur. Keep on OT induce vomiting. IF ON SKIN (OR HAIR): clothing. Rinse skin with water. Wash contaminated emove person to fresh air and keep comfortable for or poison control center. IF IN EYES: Rinse cautious e contact lenses if present and easy to do. Continue r poison control center. Absorb spillage to prevent with corrosive-resistant inner liner. Keep tightly capped	
Hazard statements Precautionary statements Prevention Response	May be corrosive to metals. Causes see Do not breathe dust or mists. Wash sk gloves/protective clothing/eye protection in original container. IF SWALLOWED: Rinse mouth. Do NO Immediately take off all contaminated of clothing before reuse. IF INHALED: Re- breathing. Immediately call a physician with water for several minutes. Remover rinsing. Immediately call a physician or material damage. Store in corrosive-resistant container we Store locked up. Store out of direct sur-	in thoroughly after handling. Wear protective on/face protection if contact is likely to occur. Keep onl OT induce vomiting. IF ON SKIN (OR HAIR): clothing. Rinse skin with water. Wash contaminated emove person to fresh air and keep comfortable for or poison control center. IF IN EYES: Rinse cautious e contact lenses if present and easy to do. Continue r poison control center. Absorb spillage to prevent with corrosive-resistant inner liner. Keep tightly capped	

SECTION 3: Composition/Information on Ingredients

Mixture			
Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	80-100
Sulfuric acid	Sulphuric acid; Dihydrogen sulfate	7664-93-9	10-30

SECTION 4: First-Aid Measures

If inhaled

Remove individual to fresh air. Seek medical advice/attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical advice/attention if irritation develops. Chemical burns must be treated by a physician.

In case of eye contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

If swallowed

Call a physician or poison control center immediately. Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

Most important symptoms and effects, both acute and delayed

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep person under observation. Symptoms may be delayed.

General information

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

SECTION 5: Firefighting Measures

Extinguishing media Suitable extinguishing media	Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	Do not use a heavy water stream. Use of heavy stream of water may spread fire.
Specific hazards arising from the Fire hazard	substance or mixture Not flammable
Explosion hazard	Not explosive
Reactivity	May be corrosive to metals.
Hazardous combustion products	Sulfur oxides. Other irritating fumes and smoke.
Advice for firefighters	
Precautionary measures	Exercise caution when fighting any chemical fire; hazardous fumes will be present.
Firefighting equipment/instructions	Use water spray or fog for cooling exposed containers.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	Refer to section 9 of the SDS for flammability properties.
CTION C. Assidental Deleas	

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Do not breathe dust or mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

Environmental precautions

Avoid discharge into drains, watercourses, or onto the ground.

Methods and material for containment and cleaning up

Ventilate the area. Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewers, basements, or confined areas. Following product recovery, flush area with water. Dilute acid with water and neutralize with dilute base. If not recoverable, dilute with water or flush to holding area and neutralize. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Reference to other sections

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

SECTION 7: Handling and Storage

Personal precautions, protective equipment, and emergency procedures

Do not breathe dust or mists. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

Conditions for safe storage, including any incompatibilities

Store in corrosive-resistant container with corrosive-resistant inner liner. Keep tightly capped. Store locked up. Store out of direct sunlight between 36°F–85°F. Store away from incompatible materials (refer to section 10 of the SDS).

CTION 8: Exposure Control	s/Personal Protection	n	
Occupational exposure limits			
US ACGIH Threshold Limit Valu	es		
Components	Ту	ре	Value
Sulfuric acid (CAS 7664-93-9)	τv	VA	0.2 mg/m³ (thoracic particulate)
US NIOSH: Pocket Guide to Che	emical Hazards		
Components	Ту	/pe	Value
Sulfuric acid (CAS 7664-93-9)	TV	VA	1 mg/m ³
Sulfuric acid (CAS 7664-93-9)	ID	LH	15 mg/m ³
US OSHA Table Z-1 Limits for A	ir Contaminants (29 CFR	1910.1000)	
Components	Ту	ре	Value
Sulfuric acid (CAS 7664-93-9)	TV	VA	1 mg/m ³
Biological limit values			
No biological exposure limits note	d for the ingredient(s).		
Exposure controls			
Appropriate engineering controls	should be matched to con ventilation, or other engine exposure limits. If exposu	ditions. If ap eering contro re limits have	air changes per hour) should be used. Ventilation rates plicable, use process enclosures, local exhaust ols to maintain airborne levels below recommended e not been established, maintain airborne levels to an of emergency shower must be available when handling
Personal protective equipment			
Eye/face protection	Wear appropriate chemica	al safety gog	gles if contact is likely to occur.

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Skin protection	Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur.
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Wear appropriate protective clothing if contact is likely to occur.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the exposure limits. Advice should be sought from respiratory protection suppliers.

SECTION 9: Physical and Chemical Properties

Body protection

Information on basic physical and chemical properties

Physical state	Liquid
Form	Liquid
Color	Clear, colorless
Odor	Odorless
Odor threshold	No data available
рН	<1
Evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Initial boiling point (boiling range)	No data available
Flash point	No data available
Specific gravity	No data available

Auto-ignition temperature No data available Decomposition temperature I on data available Decomposition temperature I on data available Upper Flammability (solid, gas) No data available Upper Flammability Limit No data available Upper Flammability Limit No data available Vapor pressure No data available Vapor density No data available Solubility No data available No data available Solubility No data available No data available Solubility No data available No data available No data available Solubility No data available No data available Solubility No data available No data available Solubility No data available No data available No data available Solubility No data available No data available CTION 10: Stability and Reactivity Reactivity May be corrosive to metals. Chemical stability Stable under recommended handling and storage conditions (refer to section 7 of the SDS Possibility of barardous Conditions to avoid Conditions decomposition Products CTION 11: Toxicological Information Direct skin contact and ingestion. Likely routes of exposure are skin/vye contact and ingestion. Likely routes of exposure are skin/vye contact and ingestion. Likely routes of exposure are skin/vye contact and ingestion. Likely routes of exposure are skin/vye contact and ingestion. Most important symptoms/fiftets, acute and delayed Cord Cord Cord Cord Cord Cord Cord Cor				
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pulmonary edema (chest pain, shortness of breath) may be delayed. May produce burns to lips, oral cavity, upper airway, esophagus, and possibly the digestive tract. Symptoms may include abdominal pain, vomiting, burns, perforations, and bleeding. Acute toxicity This product is not classified as an acute toxicity hazard. See below for product and individing generations. Product Species Acute Toxicity Estimate (ATE) PAA Reagent #1 (CAS Mixture) Rat No data available Acute Dermal LD ₅₀ Rat LD ₅₀ Rat >5 mg/L Oral LD ₅₀ Rat >2000 mg/kg Sulfuric acid (CAS 7664-93-9) Acute Acute Toxicity Data Acute Dermal LD ₅₀ Rat LD ₅₀ Rat No data available ILD ₅₀ Rat Acute Toxicity Data Sulfuric acid (CAS 7664-93-9) Acute Acute Toxicity Data Acute Dermal LD ₅₀ Rat ILD ₅₀ Rat No data available ILD ₅₀ Rat No data available ILD ₅₀ Rat No data available		including blindness. Symptoms vision. Inhalation of mists can cause re	may include stinging, tearing, redness, swelling, and blurred	
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Sulfuric acid (CAS 7664-93-9) Acute Dermal LD ₅₀ Rat Inhalation		Species		
Acute Dermal LD ₅₀ Rat Inhalation	•		·	
LD ₅₀ Rat No data available Inhalation				
Inhalation				
Inhalation	LD ₅₀	Rat	No data available	
LC_{50} Rat 0.375 mg/L (for aerosol mists)	Inhalation			
		Pat	0.375 mg/L (for aerosol mists)	

Rat	2140 mg/kg
Causes severe skin bur	ns.
Causes serious eye dar	nage.
No data available	
No data available	
No data available	
luation of Carcinogenici	ty
Substances (29 CFR 1910	.1001-1096)
m (NTP) Report on Carc	inogens
No data available	
nation	
This product is not class	ified as environmentally hazardous.
No data available	
No data available	
No data available	
Large or frequent spills	can have a harmful or damaging effect on the environment.
	Causes severe skin bur Causes serious eye dar No data available No data available No data available No data available Substances (29 CFR 1910 Substances (29 CFR 1910) Substances (29 CFR 1910) Substances (29 CFR 1910) Substances (29 CFR 1910)

SECTION 13: Disposal Considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport Information

DOT	
UN number	2796
UN Proper shipping name	Sulphuric Acid Solution
Reportable Quantity	1000 lbs
Class (Subsidiary risk)	8
Label(s)	8
Packing group	II
Special provisions	386, A3, A7, B2, B15, IB2, N6, N34, T8, TP2
Packaging exceptions	154
Packaging, non-bulk	202
ΙΑΤΑ	
UN number	2796
UN Proper shipping name	Sulphuric Acid Solution
Class (Subsidiary risk)	8
Packing group	II
Special provisions	None
IMDG	
UN number	2796
UN Proper shipping name	Sulphuric Acid Solution

Class (Subsidiary risk)	8
Packing group	П
Environmental hazards	
Marine pollutant	No
Special provisions	None
EmS	F-A, S-B
Special precautions for user	Read safety i
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	This substand
DOT hazard pictograms	No Market

Read safety instructions, SDS, and emergency procedures before handling. This substance/mixture is not intended to be transported in bulk.

IATA; IMDG hazard pictograms



SECTION 15: Regulatory Information

US federal regulations		
CERCLA Hazardous Substan	ce (40 CFR 302.4)	
Chemical name	CAS number	Reportable Quantity
Sulfuric acid	7664-93-9	1000 lbs
SARA 302 Extremely Hazard	ous Substance (40 C	FR 355 Appendices A / B)
Chemical name	CAS number	_
Sulfuric acid	7664-93-9	
SARA 304 Emergency Release	se Notification	
Chemical name	CAS number	_
Sulfuric acid	7664-93-9	
SARA 311/312 Hazardous Ch	emical	
Chemical name	CAS number	_
Sulfuric acid	7664-93-9	
SARA 313 (TRI reporting)		
Not regulated		
TSCA Section 8(b) Chemical	Inventory	
All components are on the L		ory list.
TSCA Section 12(b) Export N	otification (40 CFR 7	07, Subpt. D)
Not regulated		
Other federal regulations		
Clean Air Act (CAA) Section	112 Hazardous Air P	ollutants (HAPs)
Not regulated		
Clean Air Act (CAA) Section	112® Accidental Rel	asso Provention (40 CER 68 '
Not regulated		
C		
Clean Water Act, Toxic and P	riority Pollutants (40	CFR 401.15 and CFR 423, A
Not regulated		
Safe Drinking Water Act (SDW	VA)	
Not regulated		

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)

Not	regu	lated
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Massachusetts Right-to-Know	v Act
Chemical name	CAS number
Sulfuric acid	7664-93-9
New Jersey Worker and Com	nunity Right-to-Know Act
Chemical name	CAS number
Sulfuric acid	7664-93-9
Pennsylvania Worker and Cor	nmunity Right-to-Know Act
Chemical name	CAS number
Sulfuric acid	7664-93-9
Rhode Island Right-to-Know A	Act
Chemical name	CAS number
Sulfuric acid	7664-93-9
SECTION 16: Other Informati	on
NFPA Rating	
Health hazard	2
Fire hazard	0

1

N/A

Specific Disclaimer

Reactivity

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