

SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS REVISION 5, OSHA 29CFR 1910.1200

Section 1: Chemical Product and Company Identification

MANUFACTURER'S NAME:

ABM/Organitec
936 N. Stadem Drive
Suite 5
Tempe, AZ 85281
Safety Data Sheet Competent Person:

EMERGENCY TELEPHONE

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DATE PREPARED: April 28, 2015

REVISION DATE: April 28, 2015

PRODUCT NAME:

Ferticell Absolute Acid 1-0-0

FORMULA:


Preparation/Mixture

PRODUCT USE:

Industrial process water treatment additive

Section 2: Hazards Identification

GHS Hazard Class

Acute Toxicity Inhalation -- Category 4 

Skin Irritation -- Category 2

Signal word:

Warning

Hazard Statement:

H332

Harmful if inhaled

H315

Causes skin irritation

Precautionary Statements:

Prevention

P261

Avoid breathing dust/fume/gas/mist/vapours/spray

P271

Use only outdoors or in a well-ventilated area.

P264

Wash hands thoroughly after handling.

P280

Wear protective gloves

Response

P304 + P340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312

Call a POISON CENTER or doctor/physician if you feel unwell.

P302 + P352

IF ON SKIN: wash with plenty of soap and water.

P332 + P313

If skin irritation occurs, get medical advice/attention.

P361 + P364

Take off contaminated clothing and wash before reuse.

Storage

No Precautionary statement

Disposal

No Precautionary statement

Hazards not otherwise classified (HNOC) or not covered by GHS - None

HAZARD CLASSIFICATION:

Not classified as hazardous based on IATA, IMDG, and DOT.

FIRE AND EXPLOSION:

Not considered flammable or combustible.

POTENTIAL HEALTH EFFECTS:

<0 % of mixture consists of ingredients of unknown acute toxicity

APPEARANCE:

Clear straw liquid

NFPA Rating:

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
Organic Acid	2	0	0	--

Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPRX %	CAS NO.	EINECS/ELINCS	DSL CANADA
Inerts	<50	7732-18-5	—	Y
TS1	>20	TS	Y/N	Y
TS2	<30	TS	Y/N	Y

Trade Secret (TS): Some items on this MSDS may be designated as trade secrets. Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

Section 4: First Aid Measures

Description of First Aid Measures

INHALATION:	Remove to fresh air. If not breathing, provide CPR (cardio pulmonary resuscitation). Get immediate medical attention.
SKIN CONTACT:	Flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing.
EYE CONTACT:	Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.
INGESTION:	If swallowed do not induce vomiting, give large quantities of water to drink. Never give anything to an unconscious person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms/Injuries after Inhalation	May be harmful if inhaled.
Symptoms/Injuries after Skin Contact	Causes skin burns.
Symptoms/Injuries after Eye Contact	Causes eye burns.
Symptoms/Injuries after Ingestion	May be harmful if swallowed. May cause stomach distress, nausea, or vomiting.

Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.

Section 5: Fire-fighting Measures

Suitable extinguishing media	None
Special hazards arising from the substance or mixture	No data available.
Protective actions fire-fighters	Wear standard protective equipment and self contained breathing apparatus for firefighting if necessary.
Further information	Material does not burn. Use extinguishing agent suitable for the type of surrounding fire.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

- Wear proper protective equipment as specified in Section 8: Exposure Controls/Personal Protection
- Warn other workers of spill and contain spill.
- Recover spill by using absorbent and sweeping up waste material.
- In case of large spills, dike the spill, if possible. Call emergency services.
- Place material into a chemical waste container.
- Prevent spills or contaminated rinse water from entering sewers or watercourses.

Environmental precautions

- Prevent further leakage or spillage if safe to do so. Prevent spills or contaminated rinse water from entering sewers or watercourses.

Methods and materials for containment and cleaning up

- Recover spill by using absorbent and sweeping up waste material.
- In case of large spills, dike the spill, if possible. Call emergency services.
- Place material into a chemical waste container.
- Prevent spills or contaminated rinse water from entering sewers or watercourses.

Reference to other Sections For personal protection reference section 8. For disposal reference section 13.

Section 7: Handling and Storage

Precautions for safe handling

- Store upright at temperatures >40°F
- Keep container closed when not in use.
- Wear proper protective equipment and avoid contact with skin, eyes, or clothing.
- Wear proper protective equipment when handling this material.
- Avoid contact with skin, eyes or clothing.
- Wash hands after handling this material.
- Follow all applicable local regulations for handling and storage.
- Utilize chemical segregation.

Conditions for safe storage, including any incompatibilities

- Dispose of this container according to local, state, and federal laws in your country.
- Do not reuse this container. This container may be hazardous when emptied.

Specific uses: Industrial process water treatment additive

Section 8: Exposure Controls/Personal Protection

Control Parameters

PRODUCT COMPOSITION	ACGIH TLV	OSHA PEL	NIOSH REL
Water	—	—	—
TS1	5 mg/m3	—	—
TS2	—	—	—

Exposure controls

VENTILATION:	Always provide good general, mechanical room ventilation where this product is used.
SPECIAL VENTILATION CONTROLS:	Use this product material inside totally enclosed equipment, or use it with local exhaust ventilation at points where vapors can be released into the workspace air.
RESPIRATORY PROTECTION:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or the European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
PROTECTIVE GLOVES:	Wear chemical impervious gloves at all times while working with this product. Recommended glove types include: Rubber, Laminate Film, Nitrile, or Tri-polymer. Check with your company's glove supplier to ensure chemical resistance.
EYE PROTECTION:	Safety Glasses, Chemical goggles, face shield
PROTECTIVE CLOTHING:	Wear suitable protective clothing to prevent skin contact. Use of anti-static type aprons is recommended.
OTHER EQUIPMENT:	Make safety shower, eyewash stations, and hand washing equipment available in the work area.
WORK/HYGIENE PRACTICES:	Avoid breathing vapor. Avoid contact with eyes. Wash hands after handling.

Section 9: Physical and Chemical Properties

	PRODUCT CRITERIA
APPEARANCE - COLOR:	Clear straw
PHYSICAL STATE:	Liquid
ODOR:	Mild
ODOR THRESHOLD	Not Available for product
PH	4.0
MELTING POINT/FREEZING POINT:	Not Available for product
INITIAL BOILING POINT AND BOILING RANGE:	Not Available for product
FLASH POINT:	Not Available for product
EVAPORATION RATE:	Same as water
FLAMMABILITY (Solid, gas)	Not Available for product
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	Not Available for product
VAPOR PRESSURE	Same as water
VAPOR DENSITY (AIR = 1)	Same as water
RELATIVE DENSITY (@25 °C):	1.109
SOLUBILITY(IES)	Partially soluble in water
OXIDIZING PROPERTIES	Not Available for product
PARTITION COEFFICIENT: n-octanol/water	Not Available for product
AUTO IGNITION TEMPERATURE	Not Available for product
DECOMPOSITION TEMPERATURE	Not Available for product
VISCOSITY	Not Available for product

Section 10: Stability and Reactivity

Reactivity:	Not reactive.
Chemical Stability:	Stable
Possibility of Hazardous Reactions:	Will not occur
Conditions to Avoid:	None
Incompatibility (Materials to Avoid):	Bases, Oxidizing agents, reducing agents
Hazardous Decomposition Products:	Carbon Dioxide and Carbon monoxide

Section 11: Toxicological Information

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments	Chemical Constituent
Acute Toxicity	LD50 (Oral/Rat):	5530 mg/kg		TS1
	LD50 (Oral/Rabbit):	2200 mg/kg		TS1
	LD50 (Oral/Mouse):	5846 mg/kg		TS1
	LD50 (Dermal/Rabbit):	22.5 g/kg		TS1
	LD50 (Oral/Rat):	1950 mg/kg		TS2
	LC50 (Inhalation/Rat):	7100 mg/m3 4 hours		TS2
	LC50 (Inhalation/Rat):	3.6 mg/l 4 hours	Male	TS2
Skin Corrosion/Irritation	LC50 (Inhalation/Rat):	>5.2 mg/l 4 hours	Female	TS2
	Rabbit skin	Severe skin irritation		TS2
Serious Eye Damage / Eye Irritation	Rabbit	No Irritation		TS1
	Rabbit	Severe eye irritation		TS2
Respiratory or Skin Sensitization		No information is available.		
Germ Cell Mutagenicity		No information is available.		
Carcinogenicity		Not listed	NTP	
		3 - Group 3: Not classifiable as to its carcinogenicity to humans	IARC	TS1
		Not listed	OSHA	
		No information is available.		
Reproductive Toxicity		No information is available.		
STOT -- Single Exposure		No information is available.		
STOT -- Repeated Exposure		No information is available.		
Aspiration Hazard		No information is available.		

STOST = Specific Target Organ Toxicity

Section 12: Ecological Information

Chemical

Toxicity:	LC50 – Lepomis macrochirus (Bluegill) - > 450 – 1,000 mg/l - 96 h	TS1
	LC50 – Danio rerio (zebra fish) - 5000 mg/l - 96 h	TS2
	EC50 - Daphnia magna (Water flea) – 609.98 mg/l - 48 h	TS1
Persistence and degradability:	96% Readily Biodegradable	TS1
Bioaccumulative potential	No information is available.	
Mobility in soil:	No information is available.	
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical assessment not required/not conducted	
Other adverse effects:	No information is available.	

Note: Not all of the ingredients have been tested for Ecotoxicity.

Section 13: Disposal Considerations

Waste from residues/unused products: Follow the waste disposal requirements of your country, state, or local authorities.

Contaminated packaging: Contaminated packaging material should be disposed of as stated above for residues and unused product.

Rinsate: Do not dispose of rinse water containing product in a sanitary sewer system or stormwater drainage system.

Section 14: Transport Information

DOT TRANSPORT:

DOT PROPER SHIPPING NAME Not Regulated

ADR = International Carriage of Dangerous Goods by Road

Not Regulated

RAIL TRANSPORT:

Not Regulated

SEA TRANSPORT:

Not Regulated

AIR TRANSPORT:

Not Regulated

IATA/ICAO CLASS:

Section 15: Regulatory Information

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

This product is in compliance with rules, regulations, and orders of TSCA. All components are listed on the TSCA Inventory.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for the material. The Section 313 toxic chemicals contained in this product are: None

CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.
The California proposition 65 chemical(s) contained in this product are: None

STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Florida Toxic Substance(s):	Not listed
Massachusetts's hazardous substance(s):	TS1
Pennsylvania hazardous substance code(s):	TS1, TS2
New Jersey	TS1, TS2
Illinois	Not listed
Michigan	Not listed

CANADA:

This MSDS/SDS will be non-compliant 3 years after the issue date. This MSDS contains all of the information required by the Controlled Products Regulations (CPR).

WHMIS-INFORMATION:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR), SOR/88-66, current to February 20, 2012. The classes of controlled products listed in the CPR, Section 32, Part IV, have been reviewed and based on Professional Judgment this product has been determined not to be WHMIS controlled.

EUROPEAN UNION:

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Regulation (EC) No 1272/2008 on classification, labeling, and packaging (CLP) of substances and mixtures. None of the chemicals used in this product are on the EU's REACH SVHC (Substances of Very High Concern) chemicals list (as of December 17, 2014).

Section 16: Other Information

Initial issue date:	April 28, 2015
Final revision date:	April 28, 2015
Revision Number:	0
Revision explanation:	Initial version
Information Sources:	RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

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