# SAFETY DATA SHEET

1. Identification

**Product identifier Oxalic Acid** 

Other means of identification

**Product Number** 1500158 Recommended use Not available. **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

**Manufacturer** 

Thatcher Company Company name 1905 Fortune Road **Address** Salt Lake City, UT 84104

**United States** 

General Assistance 8-5 (801) 972-4587 **Telephone** 

Not available E-mail

Chemtrec (CCN 22106) (800) 424-9300 **Emergency phone number** 

2. Hazard(s) identification

Not classified. **Physical hazards** 

Category 4 **Health hazards** Acute toxicity, oral

> Acute toxicity, dermal Category 4 Serious eye damage/eye irritation Category 2A

Not classified. **Environmental hazards** Not classified. **OSHA** defined hazards

Label elements



Signal word Warning

Harmful if swallowed. Harmful in contact with skin. Causes serious eye irritation. **Hazard statement** 

Precautionary statement

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear Prevention

protective gloves/protective clothing. Wear eye/face protection.

If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If Response

in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. If eve irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before

reuse.

Storage Not available.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

### 3. Composition/information on ingredients

**Substances** 

Chemical name	Common name and synonyms	CAS number	%
Oxalic Acid		144-62-7	100

Material name: Oxalic Acid SDS US 1500158 Version #: 01 Issue date: 05-19-2015

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

Move to fresh air. Call a physician if symptoms develop or persist. Inhalation

Wash off with soap and water. Get medical advice/attention if you feel unwell. Get medical Skin contact

attention if irritation develops and persists. Wash contaminated clothing before reuse.

Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove **Eve contact** 

contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation

develops and persists.

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Ingestion

blurred vision. Dusts may irritate the respiratory tract, skin and eyes.

protect themselves. Show this safety data sheet to the doctor in attendance.

Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Convulsions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

**General information** 

the chemical

Specific hazards arising from

Special protective equipment and precautions for firefighters

Fire fighting

equipment/instructions

Specific methods General fire hazards Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Not applicable.

Wear suitable protective equipment.

Use water spray to cool unopened containers.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. 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 protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Collect dust using a vacuum cleaner equipped with HEPA filter.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Avoid the generation of dusts during clean-up. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

**Environmental precautions** 

7. Handling and storage Precautions for safe handling

Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Material name: Oxalic Acid SDS US 2/8

### 8. Exposure controls/personal protection

### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Material	Туре	Value	
Oxalic Acid (CAS 144-62-7)	PEL	1 mg/m3	
US. ACGIH Threshold Limit Values Material Type		Value	
Oxalic Acid (CAS 144-62-7)	STEL	2 mg/m3	
	TWA	1 mg/m3	
US. NIOSH: Pocket Guide to Chem	nical Hazards		
Material	Туре	Value	
Oxalic Acid (CAS 144-62-7)	STEL	2 mg/m3	
	TWA	1 mg/m3	

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear appropriate chemical resistant clothing.

Respiratory protection Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

exceeding the exposure limits.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### 9. Physical and chemical properties

### **Appearance**

Physical state Solid. **Form** Powder. Color Not available. Odor Not available. Odor threshold Not available. pН Not available. Melting point/freezing point 373.1 °F (189.5 °C) Initial boiling point and boiling Not available.

range

Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper Not available.

(%)

Material name: Oxalic Acid SDS US

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%)

Vapor pressure 0.00003 kPa at 25 °C

Vapor density Not available. Not available. Relative density

Solubility(ies)

Solubility (water) 140 g/l

Not available. **Partition coefficient** 

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

Density 1.90 g/cm3 estimated at 17 °C

Not explosive. **Explosive properties** Molecular formula C2H2O4 Molecular weight 90.04 g/mol **Oxidizing properties** Not oxidizing. Specific gravity 1.9 at 17 °C

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation Dust may irritate respiratory system. Prolonged inhalation may be harmful.

Skin contact Harmful in contact with skin. Dust or powder may irritate the skin.

Eye contact Causes serious eye irritation.

Ingestion Harmful if swallowed.

Symptoms related to the

Convulsions. Severe eye irritation. Dusts may irritate the respiratory tract, skin and eyes.

physical, chemical and Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

toxicological characteristics

Information on toxicological effects

Skin corrosion/irritation Health injuries are not known or expected under normal use.

Causes serious eye irritation.

Serious eye damage/eye

**Acute toxicity** 

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

Harmful in contact with skin. Harmful if swallowed.

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Material name: Oxalic Acid SDS US Specific target organ toxicity -

single exposure

Not classified

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Test Results Product** Species

Oxalic Acid (CAS 144-62-7)

Aquatic

Crustacea

EC50

Water flea (Daphnia magna)

125 - 150 mg/l, 48 hours

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

No data available. **Bioaccumulative potential** No data available. Mobility in soil

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport information

DOT

**UN number UN2811** 

UN proper shipping name

Transport hazard class(es)

Toxic solids, organic, n.o.s. (oxalic acid)

Class 6.1(PGIII)

Subsidiary risk Label(s) 6.1 Packing group Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB8, IP3, T1, TP33

Packaging exceptions 153 Packaging non bulk 213 Packaging bulk 240

**DOT BULK** 

**BULK** 

**UN** number UN2811

Toxic solids, organic, n.o.s. (oxalic acid) UN proper shipping name

Transport hazard class(es)

Class 6.1(PGIII) Label(s) 6.1 Packing group Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Material name: Oxalic Acid SDS US Special provisions IB8, IP3, T1, TP33

Packaging exceptions153Packaging non bulk213Packaging bulk240

IATA

UN number UN2811

UN proper shipping name Transport hazard class(es) Toxic solid, organic, n.o.s. (oxalic acid)

Class 6.1(PGIII)
Subsidiary risk -

Packing group III
Environmental hazards No.
ERG Code 6L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed.

Not applicable.

IMDG

UN number UN2811

UN proper shipping name

TOXIC SOLID, ORGANIC, N.O.S. (oxalic acid)

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk - Packing group |||

**Environmental hazards** 

Marine pollutant No. EmS F-A, S-A

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

DOT; DOT Bulk packaging type



IATA; IMDG



## 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Oxalic Acid (CAS 144-62-7)

1.0 % One-Time Export Notification only.

Material name: Oxalic Acid

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### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

### SARA 304 Emergency release notification

Not regulated.

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

## SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US state regulations**

### US - New Jersey RTK - Substances: Listed substance

Oxalic Acid (CAS 144-62-7)

## US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

### US. Massachusetts RTK - Substance List

Oxalic Acid (CAS 144-62-7)

### US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

## **US. Pennsylvania RTK - Hazardous Substances**

Oxalic Acid (CAS 144-62-7)

## US. Pennsylvania Worker and Community Right-to-Know Law

Oxalic Acid (CAS 144-62-7)

### **US. Rhode Island RTK**

Not regulated.

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

Material name: Oxalic Acid sps us

Country(s) or region Inventory name On inventory (yes/no)\*

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

**Issue date** 05-19-2015

Version # 01

NFPA ratings Health: 2

Flammability: 0 Instability: 0

**NFPA** ratings



Disclaimer

Thatcher Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Material name: Oxalic Acid