



SAFETY DATA SHEET

OXALIC ACID

Revised Date: 12-17-2015

Supersedes: 10-25-2000

1. Identification

Product identifier Oxalic acid
Other means of identification
SDS number 13
Synonyms 17400
Recommended use Not available.
Recommended restrictions Not available.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Daly's Wood Finishing Products
4522 S 133rd Street
Tukwila, WA 98168
General Assistance (206) 244-8844, toll free: (800) 727-9694
E-Mail Not available.
Contact Person Not available.
Emergency Telephone Chemtel (24 Hour): 800-424-9300

2. Hazard(s) Identification

Physical hazards Not classified
Health hazards Acute toxicity, Oral Category 4
Acute toxicity, Dermal Category 4
Skin corrosion/irritation Category 1C
Serious eye damage/eye irritation Category 1

Label elements



Signal word Danger
Hazard statement Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and serious eye damage.

Precautionary statement

Prevention Do not breathe dust/fume/gas/mist/vapors/spray Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

Response IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if u feel unwell.



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Take off contaminated clothing and wash it before reuse. IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention

Storage Store locked up.

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

Hazard(s) not otherwise classified None known.

3. Composition/information on ingredients

Substance

<u>Chemical name</u>	<u>CAS number</u>	<u>%</u>
Oxalic acid	144-62-7	100

4. First-aid measures

Inhalation Move individual to fresh air. If breathing has stopped, apply artificial respiration, get medical attention immediately.

Skin contact Wash area with soap and water. Remove contaminated clothing and wash before re-use.

Eye contact Wash with clean water for at least fifteen minutes; get medical attention.

Ingestion DO NOT INDUCE VOMITING. Give water or milk to drink. Get medical attention.

Most important symptoms/effects, acute and delayed May cause redness, irritation or chemical burns. Can cause serious corrosive damage to mouth, throat, stomach and respiratory system. Ingestion of a few grams may be fatal. Symptoms include nausea, convulsions and collapse. May cause chemical burn. Long-term overexposure can result in delayed liver or kidney damage.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. In case of shortness of breath, give oxygen. Keep victim warm.

General information If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety



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data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

5. Fire-fighting measures

Suitable extinguishing media

CO₂, dry chemical, foam, water fog.

Unsuitable extinguishing media

None known.

Specific hazards arising from the chemical

Extreme heat can cause material to give off vapors which become toxic.

Special protective equipment and Special firefighting procedures

Wear protective clothing and self-contained breathing apparatus. Use water spray to cool nearby containers. Foam or water on molten oxalic acid may cause frothing.

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 clean-up. Do not breathe mist or vapor. 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.

**Environmental Precautions
Methods and materials for containment and cleaning up**

Avoid discharge into drains, water courses or onto the ground. Provide ventilation. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Stop the flow of material, if this is without risk. Wear protective clothing, shovel up for use or reclaim; flush with water. Use DOT approved containers. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling

Read and observe all precautions on label. Use only with adequate ventilation. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage

KEEP OUT OF REACH OF CHILDREN. Store locked up. Store in original container; keep tightly closed and appropriately labeled. Do not reuse container for other purposes. Store away from high temperature, sparks or open flame.

Incompatible materials

Strong oxidizers, alkalies, chlorides, hypochlorites and furfuryl



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alcohol.

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Type	Value
Oxalic acid	PEL(TWA)	1 mg/m ³

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

Components	Type	Value
Oxalic acid	TWA	1 mg/m ³

US. OSHA Table Z-2 (29 CFR 1910.1000)

Not listed

US. OSHA Table Z-3 (29 CFR 1910.1000)

Not listed

US. ACGIH Threshold Limit Values

Components	Type	Value
Oxalic acid	TLV(TWA)	1 mg/m ³
	TLV(STEL)	2 mg/m ³

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Oxalic acid	REL(TWA)	1 mg/m ³
	REL(STEL)	2 mg/m ³

Appropriate engineering controls

Provide adequate general and local exhaust ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety goggles or glasses with side shield.

Skin protection

Hand protection Neoprene or rubber.

Other Impervious protective clothing if contact is likely. Eyewash station should be available.

Respiratory protection Wear respirator NIOSH-approved for dusts.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Keep work area clean and free from spills and leaks.



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Wash hands before breaks and immediately after handling the product. Provide eyewash station and safety shower. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance	White crystalline solid.
Physical state	Solid.
Form	Solid.
Color	White.
Odor	Odorless.
Odor threshold	Not available.
pH	Not available.
Melting point	Not available.
Freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Non-flammable.
% Volatile by Volume	<1
Evaporation rate (BuOAc=1)	Not available.
Maximum Volatile Organic Compound (V.O.C.)	None.
Flammability (solid, liquid, gas)	Non flammable.
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	Not available.
Flammability limit – upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure (mm Hg)	Not available.
Vapor density (Air=1)	Not available.
Relative density (Specific gravity)	1.65
Solubility(ies)	
Solubility (water)	Completely soluble in water above 70°F.
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity	Hazardous reactions will not occur under normal conditions.
Chemical stability	Stable under recommended handling and storage conditions.
Possibility of hazardous reactions	Hazardous polymerization will not occur under normal condition.



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Conditions to avoid

Avoid extreme heat.

Incompatible materials

Strong oxidizers, alkalis, chlorides, hypochlorites and furfuryl alcohol.

Hazardous decomposition Products

May liberate carbon monoxide, carbon dioxide and formic acid.

11. Toxicological information

Information on likely routes of exposure

Ingestion

May be fatal if swallowed in volume.

Inhalation

Cause serious corrosive damage to mouth, throat, stomach and respiratory system.

Skin contact

May cause chemical burn.

Eye contact

May cause redness, irritation or chemical burns.

Symptoms related to the physical, chemical and toxicological characteristics

May cause redness, irritation or chemical burns. Can cause serious corrosive damage to mouth, throat, stomach and respiratory system. Ingestion of a few grams may be fatal. Symptoms include nausea, convulsions and collapse. May cause chemical burn.

Delayed and immediate effects and also chronic effects from short- and long-term exposure

Long-term overexposure can result in delayed liver or kidney damage. Not listed as a carcinogen by the NTP, IARC, or OSHA.

Numerical measures of toxicity

Components

Oxalic acid
(CAS 144-62-7)

Test

Oral LD₅₀
Dermal LD₅₀

Species

Rat
Rabbit

Test Results

375 mg/kg
2000 mg/kg

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization

No data available.

Skin sensitization

Not a skin sensitizer.

Germ cell mutagenicity

No evidence of mutagenic effects.

Carcinogenicity

Not listed as a carcinogen by the NTP, IARC, or OSHA.

Reproductive toxicity

No evidence of reproductive effects.

Specific target organ toxicity - single exposure

No known effects from this product.

Specific target organ toxicity - repeated exposure

No known effects from this product.

Aspiration hazard

No data available.



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12. Ecological information

Numerical measures of toxicity

Components	Test	Species	Test Results
Oxalic acid (CAS 144-62-7)	Crustacea EC ₅₀	Water flea <i>(Daphnia magna)</i>	136.9 mg/l,48h

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Other adverse effects

No information available.

13. Disposal considerations

Disposal instructions

Neutralize with soda ash, sodium bicarbonate, limestone. Dispose of in accordance with all applicable federal, state and local regulations. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container; dispose of this material and its container in a safe way.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not reuse container for other purposes.

14. Transport information

DOT

UN number	3261
UN proper shipping name	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label	



Packing group	III
Environmental hazards	No
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.




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IATA

UN number	3261
UN proper shipping name	Corrosive solid, acidic, organic, n.o.s.
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	
Packing group	III
Environmental hazards	No
ERG Code	8L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	3261
UN proper shipping name	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	
Packing group	III
Environmental hazards	
Marine pollutant	No
EmS	F-A, S-B
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 Not available.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.



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Substance is listed in U.S. EPA TSCA Inventory List.

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

Not listed.

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

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

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 302/304 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Not listed.

Other federal regulations

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

Not listed.

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

Not listed.

Safe Drinking Water Act (SDWA)

Not listed.

US State regulations

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

Oxalic acid (CAS 144-62-7)

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

Oxalic acid (CAS 144-62-7)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT):

Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non- Domestic Substances List (NDSL)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes



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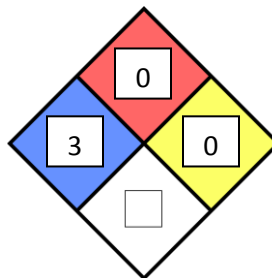
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United States & Puerto Rico
Toxic Substances Control Act (TSCA) Inventory
Yes

*A "Yes" indicates this product complies 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 10-25-2000
Revision date 12-17-2015
Version # 01
NFPA rating



References

ACGIH: Documentation of the Threshold Limit Values and Biological Exposure indices
ECHA: European Chemicals Agency
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
NIOSH: The National Institute for Occupational Safety and Health
NTP: National Toxicology Program
NLM: Hazardous Substances Data Base
OECD : Organization for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration

Disclaimer

The information, recommendations, and suggestions presented in this SDS are based upon test results and data believed to be reliable. The end user of the product has the responsibility for evaluating the adequacy of the data under the conditions of use, determining the safety, toxicity and suitability of the product under these conditions, and obtaining additional or clarifying information where uncertainty exists. No guarantee expressed or implied is made as to the effects of such use, the results to be obtained, or the safety and toxicity of the product in any specific application. Furthermore, the information herein is not represented as absolutely complete, since it is not practicable to provide all the scientific and study information in the format of this document, plus additional information may be necessary under exceptional conditions of use, or because of applicable laws or government regulations. All materials may present unknown hazards and should be used with caution.