

1. Identification of the substance/preparation and of the company/undertaking

Product Name Rustolic Red RTU

UN/ID No. Not applicable

Synonyms

Recommended use of the chemical and restrictions on use

Recommended Use

Uses advised against No information available

Supplier Address

Anderson Chemical Company, 325 South Davis Avenue, Litchfield, MN 55355 (320-693-2477)

Emergency telephone number

1-800-424-9300 Chemtrec

2. Hazards identification

Classification

OSHA Regulatory Status

Serious Eye Damage/Irritation Category 1

Label Elements

Signal word: **Danger**

Hazard Statements

Causes serious eye damage.

Precautionary Statements - Prevention

Wear eye protection/face protection.

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Immediately call a POISON CENTER or doctor/physician.

Precautionary Statements - Storage

Precautionary Statements - Disposal

Hazards not otherwise classified (HNOC)

Other Information



3. Composition/information on ingredients

Chemical Name	CAS Number	% by Weight
Oxalic Acid Dihydrate		<5%

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First aid measures

Eye contact

Flush immediately with water for 15 minutes. Lift upper and lower eyelids for complete rinsing. If irritation persists after rinsing, get medical attention.

Skin Contact

Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention. Remove contaminated clothing and wash before reuse.

Inhalation

Remove victim to fresh air. If breathing difficulty occurs or persists, get medical attention.

Ingestion

Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing or unconscious person.

Self-protection of the first aider

Most important symptoms and effects, both acute and delayed

Symptoms

Contact with the eyes will cause severe irritation, pain, reddening and possibly, damage to the cornea. Depending on the duration of eye contact, damage to the cornea may be irreversible. May cause skin irritation. Ingestion may be harmful.

Indication of any immediate medical attention and special treatment needed

Note to physicians

5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, dry chemical, alcohol resistant foam or carbon dioxide are appropriate

Unsuitable extinguishing media

None known

Specific hazards arising from the chemical

None known

Hazardous combustion products

Formic acid, carbon dioxide and carbon monoxide.

Explosion Data

Sensitivity to mechanical impact None

Sensitivity to static discharge None

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to cool fire exposed containers. Move containers from fire area if you can do it without risk.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Evacuate nonessential personnel. Ventilate area. Wear appropriate personal protection equipment.

Environmental precautions

See Section 12 for additional ecological information.

Methods for containment

Completely contain spilled material with dikes or sand bags, etc.

Methods for cleaning up

Recover as much material as possible into containers for disposal or reuse. Remaining material may be diluted with water and neutralized. Flush spill area with water. Neutralization products, both solid and liquid, must be recovered for disposal.

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Do not get in eyes, on skin, or clothing. Do not breathe vapors or mists. Do not ingest. Wash thoroughly after handling. Wear protective clothing/equipment. Use with adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed and properly labeled. Containers that have been emptied will retain product residue and should be handled as if they were full. Store in a cool, dry, well-ventilated place away from incompatible materials. Wash hands before eating, drinking, using tobacco, applying make-up or using the toilet. Do not store, use, and/or consume foods, beverages, tobacco in areas where this product is stored.

Incompatible materials

Strong alkaline materials, strong oxidizing agents, chlorites and hypochlorites and combustible materials.

8. Exposure controls/personal protection

Control parameters

Exposure Guideline

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Oxalic Acid Dihydrate	STEL: 2 mg/m ³ ; TWA: 1 mg/m ³	TWA: 1 mg/m ³ ; (vacated) TWA: 1 mg/m ³ ; (vacated) STEL: 2 mg/m ³	IDLH: 500 mg/m ³ ; TWA: 1 mg/m ³ ; STEL: 2 mg/m ³

Appropriate engineering controls

Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection

Natural rubber, neoprene or nitrile gloves should be worn. Suitable protective clothing as determined by use conditions.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations

Wash contaminated clothing before reuse.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Liquid
Color	Dark pink
Odor	Odorless
Odor threshold	No information available
pH	<1
Melting point/freezing point	No information available
Boiling point / boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability upper limit in air	No information available
Flammability lower limit in air	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity	1.034-1.054
Water solubility	Soluble in water
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available

10. Stability and reactivity

Reactivity

No information available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Avoid high temperatures and ignition sources

Incompatible materials

Strong alkaline materials, strong oxidizing agents, chlorites and hypochlorites and combustible materials.

Hazardous Decomposition Products

Upon heating, carbon monoxide, carbon dioxide and formic acid.

11. Toxicological information**Information on likely routes of exposure****Product Information**

Inhalation May cause respiratory tract irritation.
Eye contact Causes serious eye irritation and damage.
Skin Contact May cause skin irritation.
Ingestion May be harmful if swallowed

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Oxalic Acid Dihydrate	7500 mg/kg Rat	2000 mg/kg Rat	>5 mg/L (4 h)

Information on toxicological effects

Symptoms Contact with the eyes will cause severe irritation, pain, reddening and possibly, damage to the cornea. Depending on the duration of eye contact, damage to the cornea may be irreversible. May cause skin irritation. Ingestion may be harmful.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available
Germ cell mutagenicity No information available
Carcinogenicity Not applicable

Chemical Name	ACGIH	IARC	NTP	OSHA

Reproductive toxicity No information available
STOT - single exposure No information available
STOT - repeated exposure No information available
Aspiration hazard No information available

Numerical measures of toxicity - Product Information**12. Ecological information****Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Oxalic Acid Dihydrate		4000: 24 h Lepomis macrochirus mg/L LC50 static	125 - 150: 48 h Daphnia magna mg/L EC50 Static

Persistence and degradability**Bioaccumulation**

Chemical Name	Partition coefficient
Oxalic Acid Dihydrate	-0.81

Other adverse effects**13. Disposal considerations****Waste treatment methods**

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging Do not reuse container.

Chemical Name	California Hazardous Waste Status

14. Transport information

DOT	Not regulated
UN/ID No.	Not applicable
Proper shipping name	Not applicable
Hazardous ingredients	Not applicable
Hazard class	Not applicable
Packing group	Not applicable

15. Regulatory information

US Federal Regulations

SARA 311/312 Hazards

Serious Eye Damage/Irritation

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	Reportable Quantities	Toxic Pollutants	Priority Pollutants	Hazardous Substances
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CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
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US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION

NFPA	Health hazards	2	Flammability	0	Instability	0	Physical and Chemical Properties
HMIS	Health hazards	2	Flammability	0	Physical hazards	0	Personal protection
Prepared By	Lana Tipka						
Issue Date	2022-09-21						
Revision Date	2022-09-21						
Revision Note	No information available						

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet