

SAFETY DATA SHEET

1. Identification

Product identifier Rust Recker Exterior Rust Stain Remover

Other means of identification

Synonyms Turf Titan Rust Recker Exterior Rust Stain
Recommended use Remover (Liquid) Rust Stain Remover

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name BW Fusion LLC. DBA Turf Titan Brands

Address 3850 Concept Ct. Suite 101

Fort Wayne IN 46808 United States

Office States

Telephone855-483-8873E-mailNot available.

Emergency phone number 1-800-424-9300 (CHEMTREC)

Supplier See above.

2. Hazard identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsAcute toxicity, oralCategory 4Acute toxicity, dermalCategory 4Serious eye damage/eye irritationCategory 1

Environmental hazards Not classified.

WHMIS 2015 defined hazards Not classified

Label elements



Signal word Danger

Hazard statement May be corrosive to metals. Causes serious eye damage. Harmful in contact with skin. Harmful if

swallowed.

Precautionary statement

Prevention Keep only in original packaging. Wear protective gloves, protective clothing, eye protection and

face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this

product.

Response Absorb spillage to prevent material-damage.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

IF ON SKIN: Wash with plenty of water. Call a POISON CENTER or doctor if you feel unwell.

Specific treatment (see information on this label). Take off contaminated clothing and wash it

before reuse.

None known

Storage Store in a corrosion resistant container with a resistant inner liner.

Disposal Dispose of container in accordance with local, regional, national and international regulations.

WHMIS 2015: Health Hazard(s)

not otherwise classified

(HHNOC)

WHMIS 2015: Physical None known

Hazard(s) not otherwise classified (PHNOC)

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Hazard(s) not otherwise classified (HNOC)

Supplemental information

None known.

None.

3. Composition/Information on ingredients

| ΝЛ | ıvt | IIro |
|-----|-----|------|
| IVI | IXL | ure |

| Chemical name | Common name and synonyms | CAS number | % |
|-----------------------------|--------------------------|------------|---------|
| Ethanedioic acid, dihydrate | | 6153-56-6 | 80-100* |

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments

US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

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

4. First-aid measures

Inhalation
Skin contact

If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

IF ON SKIN: Wash with plenty of water. Call a POISON CENTER or doctor if you feel unwell.

Specific treatment (see information on this label). Take off contaminated clothing and wash it

Eye contact

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

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

Most important

symptoms/effects, acute and

Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

delayed

olurred vision. Fermanent eye damage including billidhess could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

treatment needed
General information

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Avoid contact with eyes and skin. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.

5. Fire-fighting measures

Water fog. Foam. Dry chemical powder. Carbon dioxide.

Suitable extinguishing media

Unsuitable extinguishing media

None known.

Specific hazards arising from the chemical

Do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing including self-contained breathing apparatus.

Fire-fighting equipment/instructions

In the event of fire, cool tanks with water spray.

Specific methods

Cool containers exposed to flames with water until well after the fire is out.

General fire hazards

No unusual fire or explosion hazards noted.

Hazardous combustion

May include and are not limited to: Oxides of carbon.

products

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. 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

Ventilate the contaminated area. Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Should not be released into the environment. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

| 7. Handling and storage | | | | |
|---|--|--|--|--|
| Precautions for safe handling | DANGER CORROSIVE Use only with adequate ventilation. Wear appropriate personal protective equipment. Avoid prolonged exposure. When using, do not eat, drink or smoke. Avoid breathing dust. Wash thoroughly after handling. Do not taste or swallow. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Store in a corrosion resistant container with a resistant inner liner. Avoid dust formation. Store in a closed container away from incompatible materials. | | | |
| Conditions for safe storage, ncluding any incompatibilities | | | | |
| | 8. Exposure controls/Pers | sonal protection | | |
| Occupational exposure limits Canada. Alberta OELs (Occ Components | upational Health & Safety Code, Sche Type | edule 1, Table 2) Value | | |
| Ethanedioic acid, dihydrate (CAS 6153-56-6) | STEL | 2 mg/m3 | | |
| | TWA | 1 mg/m3 | | |
| Safety Regulation 296/97, a | s amended) | for Chemical Substances, Occupational Health and | | |
| Components | Туре | Value | | |
| Ethanedioic acid, dihydrate (CAS 6153-56-6) | STEL | 2 mg/m3 | | |
| | TWA | 1 mg/m3 | | |
| Canada. Manitoba OELs (Re Components | eg. 217/2006, The Workplace Safety A Type | nd Health Act) Value | | |
| Ethanedioic acid, dihydrate (CAS 6153-56-6) | STEL | 2 mg/m3 | | |
| , | TWA | 1 mg/m3 | | |
| | ntrol of Exposure to Biological or Che | | | |
| Components | Туре | Value | | |
| Ethanedioic acid, dihydrate (CAS 6153-56-6) | STEL | 2 mg/m3 | | |
| | TWA nistry of Labor - Regulation respectin | | | |
| | Туре | | | |
| Ethanedioic acid, dihydrate (CAS 6153-56-6) | STEL | 2 mg/m3 | | |
| Canada. Saskatchewan OEl Components | TWA Ls (Occupational Health and Safety R Type | 1 mg/m3 egulations, 1996, Table 21) Value | | |
| Ethanedioic acid, dihydrate (CAS 6153-56-6) | 15 minute | 2 mg/m3 | | |
| , | 8 hour | 1 mg/m3 | | |
| US. OSHA Table Z-1 Limits Components | for Air Contaminants (29 CFR 1910.10 Type | 000) Value | | |
| Ethanedioic acid, dihydrate (CAS 6153-56-6) | PEL | 1 mg/m3 | | |
| US. ACGIH Threshold Limit Components | Values Type | Value | | |
| Ethanedioic acid, dihydrate (CAS 6153-56-6) | STEL | 2 mg/m3 | | |
| (3.13 3.33 30 3) | TWA | 1 mg/m3 | | |
| US. NIOSH: Pocket Guide to Components | o Chemical Hazards Type | Value | | |
| Ethanedioic acid, dihydrate | STEL | 2 mg/m3 | | |
| (CAS 6153-56-6) | TWA | 1 mg/m3 | | |
| iological limit values | No biological exposure limits noted fo | • | | |
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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.

Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Impervious gloves. Confirm with reputable supplier first.

Other Wear appropriate chemical resistant clothing.

Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134),

CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards Not applicable.

General hygiene considerations

When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

AppearanceCrystalsPhysical stateSolid.FormSolid.

Color Colorless Transparent

Odor Odorless
Odor threshold Not available.

pH 1.3 @ 0.1M Soln

Melting point/freezing point 214.7 °F (101.5 °C)

Initial boiling point and boiling

range

300.2 °F (149 °C) sublimes @140-169°C

Pour pointNot available.Specific gravityNot available.Partition coefficientNot available.

(n-octanol/water)

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

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 0.01 @ 20°C

Vapor density 4.4
Relative density 1.65

Solubility(ies) 10g/100ml H2O @15°C

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

10. Stability and reactivity

No dangerous reaction known under conditions of normal use.

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

Possibility of hazardous

reactions

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid Reacts violently with strong alkaline substances. This product may react with reducing agents. Do

not mix with other chemicals. Corrosive to metals.

Incompatible materials

Hazardous decomposition

products

Strong oxidizing agents.

May include and are not limited to: Oxides of carbon.

11. Toxicological information

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Information on likely routes of exposure

Ingestion Harmful if swallowed.

Inhalation May cause irritation to the respiratory system.

Skin contact Harmful in contact with skin.

Eye contact Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity Harmful by inhalation, in contact with skin and if swallowed.

Components Species Test Results

Ethanedioic acid, dihydrate (CAS 6153-56-6)

Acute Dermal

LD50 Rabbit 20000 mg/kg, ECHA

Inhalation

LD50 Not available

Oral

LD50 Rat 375 mg/kg, ECHA

9.5 ml/kg, ECHA, male7.5 ml/kg, ECHA, female

Skin corrosion/irritation Risk of serious damage to eyes.

Exposure minutes Not available.

Erythema value Not available.

Oedema value Not available.

Serious eye damage/eye

irritation

Causes serious eye damage.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening Not available.

value

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

Ethanedioic acid, dihydrate (CAS 6153-56-6) Irritant

Respiratory sensitization Not available.

Skin sensitization Not available.

MutagenicityNon-hazardous by WHMIS/OSHA criteria.CarcinogenicityNon-hazardous by WHMIS/OSHA criteria.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Reproductive toxicityNon-hazardous by WHMIS/OSHA criteria. **Teratogenicity**Non-hazardous by WHMIS/OSHA criteria.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not available.

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12. Ecological information

Ecotoxicity See below

Ecotoxicological data

Components Species Test Results

Ethanedioic acid, dihydrate (CAS 6153-56-6)

Crustacea EC50 Daphnia 137.5 mg/L, 48 Hours

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 125 - 150 mg/L, 48 hours

Persistence and degradability

ity No data is available on the degradability of this product.

Bioaccumulative potential No

No data available. No data available. Not available.

Other adverse effects

Mobility in general

Mobility in soil

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 instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

material under controlled conditions in an approved incinerator. 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 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 Empty containers should be taken to an approved waste handling site for recycling or disposal.

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

emptied.

14. Transport information

Transport of Dangerous Goods (TDG) Proof of Classification

Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number UN3261

Proper shipping name Corrosive solid, acidic, organic, n.o.s.

Technical name Ethanedioic acid, dihydrate

Hazard class 8

Subsidiary hazard class Limited Quantity - US

Packing group

Special provisionsIB8, IP3, T1, TP33
Packaging exceptions
<11lbs - Limited Quantity</p>

Packaging non bulk 213 Packaging bulk 240

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN3261

Proper shipping name CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.

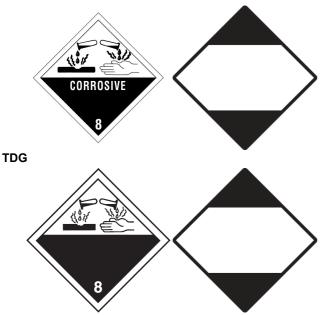
Technical name Ethanedioic acid, dihydrate

Hazard class 8

Subsidiary hazard class Limited Quantity - Canada

Packing group III Special provisions 16

Packaging exceptions <5kg - Limited Quantity



15. Regulatory information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions

Not applicable

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)

Ethanedioic acid, dihydrate (CAS 6153-56-6)

1.0 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely

hazardous substance

NO

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

Corrosive to metal

categories

Acute toxicity (any route of exposure) Serious eye damage or eye irritation

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.

US state regulations

US - California Hazardous Substances (Director's): Listed substance

Ethanedioic acid, dihydrate (CAS 6153-56-6)

Listed.

US - Minnesota Haz Subs: Listed substance

Ethanedioic acid, dihydrate (CAS 6153-56-6) Listed

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US - Texas Effects Screening Levels: Listed substance

Ethanedioic acid, dihydrate (CAS 6153-56-6) Listed.

US. Massachusetts RTK - Substance List

Ethanedioic acid, dihydrate (CAS 6153-56-6)

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

Ethanedioic acid, dihydrate (CAS 6153-56-6)

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

Ethanedioic acid, dihydrate (CAS 6153-56-6)

US. Rhode Island RTK

Ethanedioic acid, dihydrate (CAS 6153-56-6)

US. California Proposition 65

This product is not subject to warning labeling under the California Proposition 65 regulation.

Inventory status

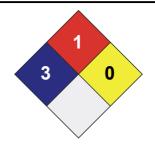
| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

16. Other information

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

| LEGEND | |
|----------|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |





Disclaimer

The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1.

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Prepared by Nexreg Advantage Phone: (519) 488-5126

Further information Not available.

Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.