

# SAFETY DATA SHEET

### 1. Identification

**Product identifier Hye-Clean Iron Out** 

Other means of identification

Product code 50004

Recommended use Agricultural/ Horticultural Use- Water Treatment- Refer to product label.

**Recommended restrictions** Refer to product label. Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**GAR Bennett LLC** Distributor: 8246 S. Crawford **Address** Reedley, CA 93654

**United States** 

Telehone:

(559) 638-6311 Days (559) 908-9884 **Evenings** 

CHEMTREC (24 Hours):

USA, Canada, 1-800-424-9300

**Puetro Rico** 

1-800-424-9300 Virgin Islands +1 (703) 527-3887 International

**Maritime** 

# 2. Hazard(s) identification

Physical hazards Not classified.

Skin corrosion/irritation Category 2 Health hazards Serious eye damage/eye irritation Category 2

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

Label elements



Signal word Warning

Causes skin irritation. Causes serious eye irritation. **Hazard statement** 

Precautionary statement

Prevention Wear eye/face protection. Wash thoroughly after handling. Wear protective gloves.

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Response

Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical

advice/attention. Take off contaminated clothing and wash before reuse.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

Material name: Hye-Clean Iron Out SDS US

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Ethanedioic acid		144-62-7	5 - < 10*
Other components below		90 - 100	

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

### 4. First-aid measures

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

and pain. Severe eye irritation.

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause redness

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important symptoms/effects, acute and

delaved

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

Indication of immediate medical attention and special treatment needed

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

General information protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

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

General fire hazards 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. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. 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 Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: 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. Prevent entry into waterways, sewer. basements or confined areas. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling

Avoid contact with eyes, Avoid contact with eyes, skin, and clothing, Avoid prolonged exposure, Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

Material name: Hye-Clean Iron Out 50004 Version #: 04 Revision date: 12/29/2022 Issue date: 12/29/2022

## 8. Exposure controls/personal protection

#### Occupational exposure limits

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

Components	Type	Value	
Ethanedioic acid (CAS 144-62-7)	PEL	1 mg/m3	
US. ACGIH Threshold Limit Valu	ıes		
Components	Туре	Value	
Ethanedioic acid (CAS 144-62-7)	STEL	2 mg/m3	
,	TWA	1 mg/m3	
US. NIOSH: Pocket Guide to Ch	emical Hazards		
Components	Туре	Value	
Ethanedioic acid (CAS 144-62-7)	STEL	2 mg/m3	

**Biological limit values** 

Appropriate engineering controls

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

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. Eye wash facilities and emergency shower must be available when handling this product.

1 mg/m3

Individual protection measures, such as personal protective equipment

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

Skin protection

Wear appropriate chemical resistant gloves. **Hand protection** Other Wear appropriate chemical resistant clothing.

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection not Respiratory protection

required.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

TWA

General hygiene considerations

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

Liquid. **Appearance** Liquid. Physical state **Form** Liquid.

> Clear colorless or nearly colorless Color

Odor None.

Odor threshold Not available.

Acidic

Melting point/freezing point Not available. Initial boiling point and boiling 213.8 °F (101 °C)

range

315.0 °F (157.2 °C) estimated Flash point

**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.

Explosive limit - lower (%) Not available.

Material name: Hye-Clean Iron Out

Explosive limit - upper (%) Not available. Not available. Vapor pressure Vapor density Not available. Relative density Not available.

Solubility(ies)

100 % Solubility (water)

Partition coefficient Not available.

(n-octanol/water)

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

Other information

**Density** 8.70 lb/gal estimated Flammability class Combustible IIIB estimated

1.5 1% Solution pH in aqueous solution

## 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 Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Causes skin irritation. Skin contact

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and

toxicological

characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation.

Severe eye irritation. May cause redness and pain.

### Information on toxicological effects

Not available. **Acute toxicity** 

**Product Species Test Results** 

Hye-Clean Iron Out

Acute Oral

LDL0 Dog 12500 mg/kg estimated

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

### Respiratory or skin sensitization

Respiratory sensitization Not available.

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

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

mutagenic or genotoxic.

Material name: Hye-Clean Iron Out

SDS US 

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

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

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Specific target organ toxicity - single exposure Not classified.

Specific target organ

Not classified.

toxicity - repeated

exposure

Not available.

**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.

**Product Species Test Results** Hye-Clean Iron Out Aquatic Crustacea EC50 Daphnia 1562.5 mg/l, 48 hours estimated **Test Results** Components **Species** Ethanedioic acid (CAS 144-62-7) Aquatic Crustacea EC50 Water flea (Daphnia magna) 125 - 150 mg/l, 48 hours

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

Bioaccumulative potential Not available. No data available. Mobility in soil

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

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

## 13. Disposal considerations

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

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

Local disposal regulations Dispose in accordance with all applicable regulations.

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

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

DOT

UN3265 UN number

**UN** proper shipping name Transport hazard class(es) Corrosive liquid, acidic, organic, n.o.s. (Ethanedioic acid)

Class 8 Subsidiary risk 8 Label(s) Ш Packing group

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

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

Special provisions IB3, T7, TP1, TP28

Packaging exceptions154Packaging non bulk203Packaging bulk241

IATA

UN number UN3265

UN proper shipping name Corrosive liquid, acidic, organic, n.o.s. (Ethanedioic acid)

Transport hazard class(es)

Class 8
Subsidiary risk Packing group III
Environmental hazards No.
ERG Code 8L

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

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

**IMDG** 

UN number UN3265

UN proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Ethanedioic acid)

Transport hazard class(es)

Class 8
Subsidiary risk 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.

#### DOT



## IATA; IMDG



# 15. Regulatory information

US federal regulations

This product is not known to be 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 (CAS 144-62-7)

1.0 % One-Time Export Notification only.

Material name: Hye-Clean Iron Out

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

Not listed.

### SARA 304 Emergency release notification

Not regulated.

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

Not regulated.

### 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 No

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

Not listed.

### **US. Massachusetts RTK - Substance List**

Ethanedioic acid (CAS 144-62-7)

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

Ethanedioic acid (CAS 144-62-7)

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

Ethanedioic 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
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

50004 Version #: 04 Revision date: 12/29/2022 Issue date: 12/29/2022

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

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

\*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

11-13-2015 Issue date 06-29-2016 Revision date

Version # 03

The information provided in this Safety Data Sheet is correct to the best of Manufacturer's Disclaimer

> knowledge, information and belief at the date of its publication; however, it is provided only as a guidance for safe handling, use, processing, storage, transportation, disposal and release of the Product. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made with respect to the Product or the information provided herein, or that the Product or information herein may be used without infringing the intellectual property rights of others. The information provided in this Safety Data Sheet relates only to the specific Product designated and may not be valid if the Product is used in combination with other materials or in any other process, unless specified herein. The user assumes all risk and liability for loss, injury, damage or expense due to any use, handling, storage or disposal of the Product, and Manufacturer recommends that the user conducts its owns tests of

the Product to determine suitability of the Product for user's particular use.

Hazard(s) identification: Response **Revision information** 

GHS: Classification

Material name: Hye-Clean Iron Out SDS US