


SAFETY DATA SHEET		
IrrigAid Gold		
Revision: 1.00 US	Issuing date: 05/05/2015	

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : IrrigAid Gold

1.2 Relevant identified uses of the substance or mixture and uses advised against

Uses of the Substance / Mixture : Specific use(s): Agrochemicals

1.3 Details of the supplier of the safety data sheet

Company : Aquatrols Corporation of America
1273 Imperial Way, Paulsboro, NJ 08066
Telephone number: 800-257-7797

1.4 Emergency telephone

USA: FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT:
CHEMTREC (800-424-9300 within the United States or 703-527-3887 for International collect calls) or
Solvay CAERS (Communication and Emergency Response System at 800-916-3232)

SECTION 2: Hazards identification

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

2.1 Classification of the substance or mixture

HCS 2012 (29 CFR 1910.1200)

Serious eye damage, Category 1 H318: Causes serious eye damage.

2.2 Label elements


HCS 2012 (29 CFR 1910.1200)

Pictogram : 

Signal Word : Danger

Hazard Statements:

H318 Causes serious eye damage.

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SECTION 4: First aid measures

4.1 Description of first-aid measures

- If inhaled : Negligible or unlikely exposure pathways
If inhaled, remove to fresh air.
Consult a physician if necessary.
- Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Get medical attention if irritation develops and persists.
Wash contaminated clothing before re-use.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical advice.
- Ingestion : Do not induce vomiting without medical advice.
If victim is conscious:
Rinse mouth with water.
Keep at rest.
Do not leave the victim unattended.
Vomiting may occur spontaneously
Risk of product entering the lungs on vomiting after ingestion.
Lay victim on side.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Skin contact may aggravate existing skin disease

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician : All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically.
There is no specific antidote available.

SECTION 5: Firefighting measures

- Flash point : > 200 °F (> 93 °C)
Pensky-Martens closed cup
Flammability class: Will burn
- Autoignition temperature : no data available
- Flammability / Explosive limit : no data available

5.1 Extinguishing media

- Suitable extinguishing media : Extinguishing media - small fires

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Dry chemical
Carbon dioxide (CO₂)

Extinguishing media - large fires
Foam
Water spray

Unsuitable extinguishing media : High volume water jet
(frothing possible)

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Under fire conditions:
Will burn
(following evaporation of water)
Hazardous decomposition products formed under fire conditions.
Carbon oxides

5.3 Advice for firefighters


Special protective equipment for fire-fighters : Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
For further information refer to section 8 "Exposure controls / personal protection."

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies

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6.3 Methods and materials for containment and cleaning up

- Recovery : Soak up with inert absorbent material.
Shovel or sweep up.
Keep in suitable, closed containers for disposal.
Never return spills in original containers for re-use.
- Decontamination / cleaning : Clean contaminated surface thoroughly.
Flush with plenty of water.
Recover the cleaning water for subsequent disposal.
Decontaminate tools, equipment and personal protective equipment in a segregated area.
- Disposal : Dispose of in accordance with local regulations.
- Additional advice : Material can create slippery conditions.


6.4 Reference to other sections

- Reference to other sections : 7. HANDLING AND STORAGE
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
13. DISPOSAL CONSIDERATIONS

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling and usage : Avoid inhalation of vapor or mist.
Avoid contact with skin and eyes.
Ethylene oxide may collect in container head space.
Provide adequate ventilation.
- Hygiene measures : Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
 - 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
 - 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
 - 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

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7.2 Conditions for safe storage, including any incompatibilities

Technical Measures for storage : Store at room temperature in the original container.

Storage conditions

- Recommended : Stable under normal conditions.
Keep container tightly closed in a dry and well-ventilated place.
- To be avoided : Keep away from open flames, hot surfaces and sources of ignition.
Keep away from incompatible materials to be indicated by the manufacturer
- Incompatible products : Do not mix with incompatible materials (See list, section 10).

Packaging Measures

- Packaging materials—Recommended : Plastic drum, Plastic materials.
- Packaging materials—To be avoided : Uncoated metals

Storage stability

Storage temperature : 39 - 120 °F (4 - 49 °C)

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

8.1 Control parameters


Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Control measures

- Engineering measures : Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures :

Effective exhaust ventilation system

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Personal protective equipment

- Respiratory protection : When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

No personal respiratory protective equipment normally required.
- Hand protection : Recommended preventive skin protection
Gloves
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Eye protection : Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Eye contact should be prevented through the use of:

Safety glasses with side-shields
Safety goggles
- Skin and body protection : Recommended preventive skin protection
Footwear protecting against chemicals
impervious clothing
- Hygiene measures : Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
3) Wash exposed skin promptly to remove accidental splashes or contact with material.
- Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9: Physical and chemical properties

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

9.1 Information on basic physical and chemical properties

- Appearance : Physical state: liquid
Color: opaque brown
- Odor : characteristic

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Odor Threshold	:	no data available
pH	:	5.0 - 7.0 (100 % (m/v))
Flash point	:	> 200 °F (> 93 °C) Pensky-Martens closed cup Flammability class: Will burn
Evaporation rate (Butylacetate = 1)	:	< 1
Flammability (solid, gas)	:	no data available
Flammability (liquids)	:	no data available
Flammability / Explosive limit	:	no data available
Autoignition temperature	:	no data available
Vapor pressure	:	no data available
Vapor density	:	no data available
Density	:	Relative density : ca. 1 (77 °F (25 °C))
Solubility	:	Water solubility : soluble
Partition coefficient: n-octanol/water	:	no data available
Thermal decomposition	:	no data available
Viscosity	:	Viscosity, dynamic : 20 mPa.s (77 °F (25 °C))
Explosive properties	:	no data available
Oxidizing properties	:	no data available

9.2 Other information

no data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

no data available

10.2 Chemical stability

Chemical stability : Stable under recommended storage conditions.

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10.3 Possibility of hazardous reactions

Polymerization : Hazardous polymerization does not occur.

10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.

10.5 Incompatible materialsMaterials to avoid : Strong oxidizing agents
Strong acids**10.6 Hazardous decomposition products**

Decomposition products : Carbon oxides

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**Acute oral toxicity : Not classified as harmful if swallowed
According to the data on the components
According to the classification criteria for mixtures.

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Acute toxicity (other routes of administration) : no data available

Skin corrosion/irritationSkin irritation : Not classified as irritating to skin
According to the data on the components
According to the classification criteria for mixtures.**Serious eye damage/eye irritation**Eye irritation : Risk of serious damage to eyes.
According to the data on the components
According to the classification criteria for mixtures.**Respiratory or skin sensitization**

Sensitization : no data available

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Mutagenicity

Genotoxicity in vitro : no data available

Genotoxicity in vivo : no data available

Carcinogenicity

Carcinogenicity : no data available

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP
IARC
OSHA
ACGIH**Toxicity for reproduction and development**

Toxicity to reproduction / fertility : no data available

Developmental Toxicity/Teratogenicity : no data available

STOT

STOT-single exposure : no data available

STOT-repeated exposure : no data available


Aspiration toxicity

Aspiration toxicity : no data available

SECTION 12: Ecological information**12.1 Toxicity****Aquatic Compartment**

Toxicity to aquatic plants

D-Glucopyranose, oligomeric, decyl
octyl glycosides : EC50 - 72 h : 27.22 mg/l - *Desmodesmus subspicatus* (green algae)
Growth rate
Harmful to algae.
Unpublished reports

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12.2 Persistence and degradability

Biodegradability

Biodegradability

D-Glucopyranose, oligomeric, decyl octyl glycosides : Ready biodegradability study:
Method: OECD Test Guideline 301 F
100 % - 28 d
The substance fulfills the criteria for ultimate aerobic biodegradability and ready biodegradability
Published data

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Environment assessment : Not classified due to lack of data.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Disposal


Prohibition : Should not be released into the environment.

Advice on Disposal : Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.
Dispose of in accordance with local regulations.

Waste Code : EPA:
Hazardous Waste – NO

Advice on cleaning and disposal of packaging

Advice on Disposal : Rinse with an appropriate solvent.
Dispose of contents/container in accordance with local regulation.

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SECTION 14: Transport information

DOT
Not Regulated

TDG
Not Regulated

IMDG
Not Regulated

IATA
Not Regulated


Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information

15.1 Notification status

- | | |
|---|---|
| United States TSCA Inventory | : y (positive listing)
On TSCA Inventory |
| Canadian Domestic Substances List (DSL) | : y (positive listing)
All components of this product are on the Canadian DSL. |
| Australia Inventory of Chemical Substances (AICS) | : y (positive listing)
On the inventory, or in compliance with the inventory |
| Japan. CSCL - Inventory of Existing and New Chemical Substances | : y (positive listing)
Not in compliance with the inventory |
| Korea. Korean Existing Chemicals Inventory (KECI) | : y (positive listing)
On the inventory, or in compliance with the inventory |
| China. Inventory of Existing Chemical Substances in China (IECSC) | : y (positive listing)
On the inventory, or in compliance with the inventory |

15.2 Federal Regulations

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SARA 311/312 Hazards

Fire Hazard	no
Reactivity Hazard	no
Sudden Release of Pressure Hazard	no
Acute Health Hazard	yes
Chronic Health Hazard	no

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No.	Reportable quantity
Ethylene Oxide	75-21-8	10 lb
Sodium hydroxide (Na(OH))	1310-73-2	1000 lb
1,4-Dioxane	123-91-1	100 lb
Propylene Oxide	75-56-9	100 lb

SARA 304 Reportable Quantity

Ingredients	CAS-No.	Reportable quantity
Ethylene Oxide	75-21-8	10 lb
Propylene Oxide	75-56-9	100 lb

SARA 302 Reportable Quantity


Ingredients	CAS-No.	Reportable quantity
Ethylene Oxide	75-21-8	10 lb
Propylene Oxide	75-56-9	100 lb

15.3 State Regulations

California Prop 65 : WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.
Ethylene Oxide

WARNING! This product contains a chemical known in the State of California to cause cancer.
1,4-Dioxane
Ethylene Oxide
Propylene Oxide

No Significant Risk Levels (NSRLs) have been established for the following:
Ethylene Oxide
Value : 2 micrograms per day

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1,4-Dioxane
Value : 30 micrograms per day

SECTION 16: Other information

NFPA-Classification

Health : 2 moderate
Flammability : 1 slight
Instability or Reactivity : 0 minimal

HMIS-Classification

Health : 2 moderate
Flammability : 1 slight
Reactivity : 0 minimal

Further information

Date Prepared : 05/15/2014
Further information : Product classified under the US GHS format.

Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH : American Conference of Governmental Industrial Hygienists
OSHA : Occupational Safety and Health Administration
WHMIS : Workplace Hazardous Materials Information System
NTP : National Toxicology Program
IARC : International Agency for Research on Cancer
OEL : Acceptable Exposure Limit
NIOSH : National Institute for Occupational Safety and Health
NFPA : National Fire Protection Association
HMIS : Hazardous Materials Identification System (Paint & Coating)

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in another manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.