


FICHA DE DATOS DE SEGURIDAD		
Evenflow INTL		
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APARTADO 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

1.1 Identificador del producto

Nombre comercial : Evenflow INTL

1.2 Usos identificados relevantes de la sustancia o mezcla y usos no recomendados

Usos de la sustancia/mezcla : Uso(s) específico(s): Productos agroquímicos

1.3 Datos del proveedor de la ficha de datos de seguridad

Empresa : Aquatrols Corporation of America
1273 Imperial Way, Paulsboro, NJ 08066
N.º de teléfono: 800-257-7797

1.4 Teléfono de emergencia

EE. UU: PARA EMERGENCIAS QUE IMPLIQUEN UN DERRAME, FUGA, INCENDIO, EXPOSICIÓN O CONTACTO ACCIDENTAL: CHEMTREC (800-424-9300 dentro de Estados Unidos y el o 703-527-3887 para llamadas internacionales a cobro revertido) Solvay CAERS (Sistema de Comunicación y Respuesta a Emergencias al 800-916-3232)

APARTADO 2: Identificación de riesgos

Aunque la OSHA no ha adoptado la parte ambiental de las regulaciones del GHS, este documento puede incluir información sobre los efectos ambientales.

2.1 Clasificación de la sustancia o de la mezcla

HCS 2012 (29 CFR 1910.1200)

Lesiones oculares graves, categoría 1 H318: Provoca irritación ocular grave.


2.2 Elementos de la etiqueta

HCS 2012 (29 CFR 1910.1200)

Pictograma : 

Palabra de advertencia : Peligro

Declaraciones de peligro: H318 Provoca irritación ocular grave.

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Consejos de prudencia:

Prevención P280	Llevar protección para los ojos y la cara.
Respuesta P305 + P351 + P338	EN CASO DE CONTACTO CON LOS OJOS: Aclarar cuidadosamente con agua durante varios minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando. Llame inmediatamente a un CENTRO TOXICOLÓGICO o al médico/profesional clínico.
P310	

2.3 Otros peligros que no entran dentro de la clasificación

Puede provocar irritación cutánea.

APARTADO 3: Composición/información sobre los componentes

3.1 Sustancia

No aplicable, este producto es una mezcla.

3.2 Mezcla

Naturaleza química : Solución acuosa tensioactiva.


Ingredientes peligrosos e impurezas

Denominación química	Número de identificación N.º CAS	Concentración [%]
D-glucopiranosas, oligoméricas, deciloctilglucósidos	68515-73-1	5 - 10

La identidad química específica y/o el porcentaje exacto (concentración) de la composición constituye un secreto comercial.

Ingredientes no peligrosos e impurezas

Denominación química	Número de identificación N.º CAS	Concentración [%]
Agua	7732-18-5	< 85

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\$\$\$3ULPHURVDX[LOLRV

HVFULSFLyQHORVSULPHURVDX[LOLRV

(EDVRGHLKODDFLyQ : 9tDGHH[SRVFLyQLJQLFDWHR LPSUREDEOH
(EDVRGHLKODDFLyQHVSOD]DUDODSHUVRQDIHFWDGDDODLUHOLEUH
&RQXOWDUDXEpGLFRVLHVGFHV DULR

&RQDFWRFRQDSLHO : (EDVRGHFRQDFWRFRQDSLHOHXDJJDULpHGLDWDPHQVHFRQEXQDWH
GXUDWHODOPHqVPLpWRVTXLWUODURSDHOFDOJDGRFRQDPLQGRV
%XVFDUDWHLyEpGLFDVLVHGHVUUROODXQLUULWDFLyqVWDSHUVLVWH
/DYUODURSDFRQDPLQGDGWHVGHYROYHUDXWLOLJDUOD

&RQDFWRFRQRVRMRV : \$ODUDULpHGLDWDPHQVHFRQEXQDWHHDJXDWDPELpEDMRORVSiUSDGRV
GXUDWHODOPHqVPLpWRV
6ROLFLWDUDWHLyEpGLFD

,QHVWLyQ : 1RSURYRFDUHOYyPLWRVLQHFRPHQDFLyEpGLFD
6LODYtFWLPDHWiFRQFLHWH
/DYUODERFDFRQJXD
ODWHQUODHQSRVR
1RGHMDUDODYtFWLPDVLQWHELyQ
3RGUtDYRPLWDUGHIRUPDHVSRQIBD
5LHVJRGHTXHHOSURGXFWRHORVXOPRqAVDOYRPLWDUGHVSpVGHODLQHVWLyQ
\$RVWDUDODYtFWLPDGHXQDGR
6ROLFLWDUDWHLyEpGLFD

4.2 Principales síntomas y efectos, agudos y retardados

Riesgos : (OFRQDFWRFRQDSLHOSXHGHDJUDYDUHqIUPHGdGHVFXWiEDVH[LVWHQVHV

4.3 Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente

A iso para el médico : 7RGRVORVWUDWDPLHQVVTXHVHDSOLTXHqHEHEEDVDUVHHQRVVLJpVtVWRPDV
GHPDOHVVDUREVHUYDGRVHqBOSDFLHWHHEHWHqVUVHHEXHQDODSRVLELOLGDGG
TXHVHKDDSURGXFLGRXqVREH[SRVFLyQRWURVpVHDOHVDSDUWHGHVHWHHSURGXFWR

7UDWDUORVtVWRPDV
1RH[LVWHQVHVGRWRHVSHfILFR

APARTADO 5: Medidas para la extinción de incendios


Punto de inflamación : 3 2
Tasa cerrada de Pens y Martens
Clase de inflamabilidad: e quemar

7HPSHUDWXUDGH[LJQLyqVSRQIBD : 1RVHGLVSRqBHGHDWRV

/PLWHGHLODpDELOLGDGH[SORVLYLGDG : 1RVHGLVSRqBHGHDWRV

5.1 Medios de extinción

Medios de extinción adecuados : Medios de extinción, incendios pequeños

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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

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 materials

Materials 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/irritation


Skin 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.