

Astria


Revision: 1.0 US

Issuing date: 4.22.2023

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

Product identifier on label	Astria
Use	Natural Surfactant
Supplier or Manufacturer	Aquatrols Corporation of America 1273 Imperial Way Paulsboro, NJ 08066 Phone number: 1-856-537-6003 sds@aquatrols.com
Emergency telephone	FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC 800-424-9300 within the United States and Canada, or 703-527-3887 for international collect calls.

SECTION 2: Hazards identification

Classification	Serious Eye Damage: Category 1, H318 Harmful to aquatic life: H402
Signal Word (OSHA)	Danger
Hazard Statements	H318 Causes serious eye damage H402 Harmful to aquatic life
Hazard Symbols	
Precautionary Statements	P101+P102+P103: If medical advice is needed, have product container or label available. Keep out of reach of children. Read label before use. P261: Avoid breathing fume/gas/mist/vapors/spray. P262: Do not get in eyes, on skin, or on clothing. P264: Wash hands thoroughly after handling. P273: Avoid release into the environment. P280: Wear protective gloves, protective clothing, eye protection and face protection. P301+330: If swallowed: Rinse mouth. P302+P352: If on skin: Wash with plenty of water for 15 to 20 minutes. P303+P353: Rinse skin with water/shower. P304+P340: If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a poison control center or doctor/physician. P337+P313: If eye irritation persists, get medical attention. P234+P235+P410+P420: Keep only in original container. Keep cool. Protect from sunlight. Store away from food and feed products. Store away from other materials. P510: Dispose of contents and container to hazardous or special waste collection point.
Other hazard statements	May cause skin irritation.

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SECTION 3: Composition/information on ingredients

Hazardous Component	CAS No.	GHS Classification	Concentration
D-glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	Eye Dam. -H318	≤50.0%

Non-Hazardous Components:	CAS No.	Concentration
Biosurfactant, microbial origin	proprietary	≤ 10.0%
Kelp Extract	proprietary	≤ 10.0%
Inert components	proprietary	≥ 40.0%

SECTION 4: First aid measures

Have the product container, label, or Safety Data Sheet with you when calling a poison control center, or doctor, or going for medical treatment.

Skin Contact:	Immediately wash thoroughly with plenty of water, continue rinsing for 15-20 minutes, apply sterile dressings. Consult a skin specialist.
Eye Contact:	If in eyes: Rinse cautiously with water for 15-20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist.
Inhalation:	If inhaled: Remove to fresh air. Immediately administer a corticosteroid from a controlled/metered dose inhaler. If person is not breathing, call 911 or an ambulance, then give artificial respiration (if possible).
Ingestion:	If swallowed: Wash out mouth with water provided person is conscious. Drink 200-300mL of water. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call a physician.

SECTION 5: Firefighting measures

Suitable (and unsuitable) extinguishing media	Use water, carbon dioxide, dry chemical powder or appropriate foam. Do not use water jet, as this may spread fire.
Special firefighting procedures	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Specific hazards during firefighting	Under fire conditions, will burn. Carbon oxides can form under decomposition.

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

Wear suitable protective equipment. Avoid contact with eyes and inhalation of vapors, and spray mist. Ensure adequate ventilation. For further information, see Section VIII "Exposure Controls/Personal Protection".

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 should be reported to local agencies.

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Methods and materials for containment and cleanup

Methods of containment:	Stop leak if safe to do so. Dam up with sand or inert earth (do not use combustible materials).
Recovery:	Soak up with inert absorbent materials. Shovel or sweep up. Keep in suitable, closed container for disposal. Never return spills to original containers for re-use.
Decontamination/cleaning:	Clean contaminated surface thoroughly. Wash non-recoverable remainder with large amounts 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.

SECTION 7: Handling and storage

Handling	Use with adequate ventilation. Avoid inhalation of vapors and sprays. Avoid contact with skin or eyes. Wear personal protective equipment to avoid contact with eyes, skin and clothing. Open container carefully, as contents may be under pressure. Avoid prolonged exposure. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. Wash exposed skin promptly to remove accidental splashes or contact with material.
Storage	Do not allow product to freeze. Keep product away from heat, to maintain quality. Store in an opaque container in a cool, dry place. Minimize product exposure to direct sunlight in hot climates. Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas with this material is stored. Store in plastic drum/materials and avoid storing in uncoated metals.
Other Precautions	Store product in area between 8-20C. Store in tightly sealed containers.

SECTION 8: Exposure controls/personal protection

Exposure limits	Contains no substances with occupational exposure limit values.
PEL's	Contains no substances with occupational exposure limit values. Although Astria is not expected to pose any specific health hazard, the following precautions are recommended due to possible irritation from the biological derivatives contained in the product. Individual dermal and respiratory sensitivities to Astria will vary.
Respiratory protection	Not normally required. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment compliant with OSHA Respiratory Protection Standard.
Hand protection	Gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.
Eye protection	Wear goggles or shielded safety glasses. Eye and face protection will vary dependent on work, environmental conditions, and material handling practices.
Ventilation	Handle product in a well-ventilated area.
PPE	Take protective measures to avoid eye and skin contact.
Hygienic Practices	Avoid prolonged contact with skin, breathing mist, and do not take internally. Wash thoroughly with soap and water after skin contact. Ski cream may be used to reduce possible irritation. If taken internally, do not induce vomiting. Rinse mouth with water then drink one glass of water. Contact a physician immediately.

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SECTION 9: Physical and chemical properties

Appearance	Dark brown solution
Odor	No data available
Odor threshold	No data available
pH (as-is)	5.0-7.5
Melting point/freezing point (C)	No data available
Initial boiling point and boiling range (C)	100 C
Flash Point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure (Pa)	No data available
Vapor density	No data available
Specific Gravity	1.05-1.12
Water solubility	Soluble at neutral pH
Auto-ignition temperature (C)	No data available
Decomposition temperature (C)	No data available
Viscosity (cSt)	No data available
Explosive properties	No data available
Oxidizing properties	No data available

SECTION 10: Stability and reactivity

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions
Possibility of hazardous reactions	No reactions known under normal use conditions
Conditions to avoid	Excessive heat or freezing temperatures
Incompatible materials	Oxidizing agents, bases, acids; may be incompatible with certain insecticides, fungicides and herbicides
Hazardous decomposition products	Insignificant. Mostly steam, trace amount of CO ₂ and CO. Product is not an oxygen donor.

SECTION 11: Toxicological information

Information	Routes of entry for solids and liquids are ingestion and inhalation but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.
Acute Toxicity	Virtually nontoxic after a single skin contact. Virtually nontoxic after a single ingestion.
Oral	LD ₅₀ > 5000 mg/kg (rat) (by analogy)
Dermal	LD ₅₀ > 5000 mg/kg (by analogy)
Serious eye damage/irritation	Serious eye damage (category 1)
Respiratory or skin sensitization	The active ingredient is not dermally irritating or toxic

SECTION 12: Ecological information**Toxicity: D-glucopyranose, oligomeric, decyl octyl glycosides (in concentrated form)**

Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish: LC50 (96 h) > 100 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1, semistatic)

Aquatic invertebrates: EC50 (48 h) > 100 mg/l, Daphnia magna (Directive 92/69/EEC, C.2, static)

Aquatic plants: EC50 (72 h) > 10 - < 100 mg/l (growth rate), Desmodosmus subspicatus (OECD Guideline 201, static)

Chronic toxicity to fish: No observed effect concentration (28 d) > 1 mg/l, Brachydanio rerio (OECD Guideline 204)

Chronic toxicity to aquatic invertebrates: No observed effect concentration (21 d) > 1 mg/l, Daphnia magna (OECD Guideline 202, part 2)

Assessment of terrestrial toxicity: No effects at the highest test concentration. Soil living organisms

Toxicity to soil dwelling organisms: LC0 (14 d) > 100 mg/kg, Eisenia sp. (OECD Guideline 207)

Toxicity: Biosurfactant, microbial origin

The use of biosurfactant should not result in significant adverse effects to wildlife or the environment.

Toxicity: Kelp Extract

Kelp extract 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. Not intended for use in aquatic settings.

Persistence and degradability

Readily biodegradable

Bioaccumulative potential

No data available

Mobility in soil

The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is not expected.

Results of PBT and vPvB assessment

No data available

Other adverse effects

No data available

SECTION 13: Disposal considerations

Do not reuse container. Triple rinse container, recycle or dispose of in a sanitary landfill. Observe all federal, state, provincial and local environmental regulations.

SECTION 14: Transport information

Not regulated

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SECTION 15: Regulatory information**HMIS Rating**

Health: 2

Flammability: 1

Instability: 0

SARA Title III Hazard CategoryImmediate **Y**
Delayed **N**Fire **N**
Reactive **N**Sudden Release of Pressure **N****SARA 313 Components**

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

SARA 311/312 Components

No SARA hazards.

California Prop 65:

WARNING: This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

SECTION 16: Other information

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 they are in conformity with all regulations linked to its activity. Aquatrols Corporation of America shall not be held liable for any damage resulting from handling or from contact with the above product.