



## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: Astonish

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

Use(s): Agriculture

### 1.3 Details of the supplier of the safety data sheet

Company: Rosen's Inc.  
700 SW 291 Hwy  
Suite 204  
Liberty, MO 64068  
Tel: 877- 781-9191

### 1.4 Emergency telephone

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).

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

HCS 2012 (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Acute toxicity	Category 4
STOT – Repeated Exposure	Category 2

### 2.2 Label Elements

HCS 2012 (29 CFR 1910.1200)

Pictogram



Signal Word

WARNING!

Hazard Statements:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H373	May cause damage to kidneys through prolonged or repeated exposure.

### Precautionary Statements

#### Prevention

P260 Do not breathe gas/mist/vapors.  
P264 Wash with plenty of soap and water thoroughly after handling.  
P270 Do not eat, drink, or smoke when using this product.  
P280 Wear protective gloves and clothing. Wear protective eye and face protection.

#### Response

P301+P330 IF SWALLOWED: Rinse mouth.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
  
P305+P338 IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing.  
P311 Call a POISON CENTER or doctor/physician.  
P337+P313 If eye irritation persists, get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.

#### Disposal

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance

Not applicable, this product is a mixture.

### 3.2 Mixture

Synonyms Proprietary blend

#### Hazardous Ingredients and Impurities

Component	CAS Reg. Number	% Wt/Wt
PROPRIETARY BLEND	*****	100

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

### 4.1 Description of first-aid measures

General advice Show this safety data sheet to the doctor in attendance.  
First responder needs to protect himself.  
Place affected apparel in a sealed bag for subsequent decontamination.

In case of inhalation Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist. If affected person is not breathing, apply artificial respiration.

In case of skin contact Immediate flush skin with plenty of water. Get medical attention if irritation develops and persists.

In case of eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. In case of irritation from airborne exposure, move to fresh air. Get medical attention if symptoms persist.

In case of ingestion Rinse mouth thoroughly. Drink 1 or 2 glasses of water. Do not induce vomiting without advice from poison control center. Get medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

Risk Risk of: Serious damage to the eyes, skin irritation, and respiratory irritation.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician All treatments should be based on observed signs 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.

### 5. FIREFIGHTING MEASURES

Flash Point: >100 deg C (> 212 deg F)  
Method Used: Estimated.

#### 5.1 Extinguishing Media

Suitable extinguishing media Water spray or fog. Carbon dioxide. Foam.  
Unsuitable extinguishing media Water jet.

#### 5.2 Special hazards arising from the substance of mixture

Specific hazards during fire fighting Fire conditions may produce oxides of nitrogen, carbon, phosphorus.

#### 5.3 Advice for firefighters

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

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid inhalation of vapors and spray mist.  
For further information refer to section 8 "Exposure controls/personal protection."

#### 6.2 Environmental precautions

Environmental precautions Avoid release to the environment.

#### 6.3 Methods and materials for containment and cleaning up

Prohibition Use only non-sparking tools.

Methods for containment

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Large spills: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal. In the event of a spill or accidental release notify relevant authorities in accordance with all applicable regulations.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not taste or swallow. Avoid inhalation of vapors/water spray. Wash thoroughly after handling.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dry, well-ventilated place. Store away from incompatible materials. Recommended storage above 32 F (0 C).

### 7.3 Specific end use(s)

No data available.

## 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

Ethylene glycol: OSHA PEL CLV 50 ppm 125 mg/m<sup>3</sup>  
ACGIH TLV 100mg/m<sup>3</sup> aerosol

### 8.2 Exposure controls

#### *Control measures*

#### Engineering measures

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. Provide eyewash station and safety shower.

#### *Personal protective equipment*

#### Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the US, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

#### Hand protection

It is good industrial hygiene practice to minimize skin contact. Chemical resistant gloves are recommended.

#### Eye protection

Wear safety glasses with side shields (or goggles)

Skin and body protection	Recommended preventive skin protection Footwear protection against chemicals Impervious clothing Choose body protection according to the amount and concentration of the dangerous substances at the work place.
Hygiene measures	Remove and wash contaminated apparel. Observe good industrial hygiene practices. 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: <ol style="list-style-type: none"> <li>1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.</li> <li>2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.</li> <li>3) Wash exposed skin promptly to remove accidental splashes or contact with material.</li> </ol>
Protective measures	Ensure that eyewash stations and safety showers are close to the workstation location.

<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>
--

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: Amber
Odor	Mild.
Odor Threshold	No data available
pH	No data available
Freezing point	32 F (0 C)
Boiling point/boiling range	No data available
Flash point	> 100 deg C (>212 deg F) Estimated.
Evaporation rate (butylacetate = 1)	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	1.284 g/mL
Solubility	Water solubility: 77 F (25 C) Soluble
Partition coefficient: n-octanol/water	Not applicable, preparation.
Thermal decomposition	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Chemical stability

Stable under recommended storage conditions.

### 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. Store above 32 F.

### 10.5 Incompatible materials

Reacts with:

Oxidizing materials, Acids, Strong reducing agents, Strong bases

### 10.6 Hazardous decomposition products

On combustion or on thermal decomposition (pyrolysis), releases:

Carbon oxides (CO + CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>)

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### *Acute toxicity*

Acute oral toxicity

Not classified as hazardous for acute oral toxicity according to GHS  
According to the data on the components  
According to the classification criteria for mixtures.

Acute inhalation toxicity

Not classified as hazardous for acute inhalation toxicity according to GHS

According to the data on the components

According to the classification criteria for mixtures.

Acute dermal toxicity

Not classified as hazardous for acute dermal toxicity according to GHS  
According to the data on the components  
According to the classification criteria for mixtures.

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

Does not cause skin sensitization.

According to the data on the components

According to the classification criteria for mixtures.

*Mutagenicity*

Genotoxicity in vitro

Product is not considered to be genotoxic

According to the data on the components

According to the classification criteria for mixtures.

Genotoxicity in vivo

Product is not considered to be genotoxic

According to the data on the components

According to the classification criteria for mixtures.

*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*

No data available

**STOT**

STOT-single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

According to the classification criteria for mixtures.

STOT-repeated exposure

The substance or mixture may cause damage to the kidney after repeated ingestion. The substance may cause damage to the kidney after repeated skin contact with high doses.

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

No data available.

**12.2 Persistence and degradability**

No data available.

**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**

No data available

**12.7 Ecotoxicity assessment**

No data available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### *Product Disposal*

Advice on Disposal

Dispose of waste and residues in accordance with local authority requirements. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied.

## 14. TRANSPORT INFORMATION

DOT:

Not regulated.

TDG:

Not regulated.

IMDG

Not regulated.

NOM

No data available.

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.

## 15. REGULATORY INFORMATION

### 15.1 Notification status

United States TSCA Inventory

YES (positive listing)

On TSCA inventory.

Canadian Domestic Substances List (DSL)

YES (positive listing)

All components of this product are on the Canadian DSL.

### 15.2 Federal Regulations

#### US EPA EPCRA SARA Title III

SARA Hazard Designation Sections 311/312 (40 CFR 370)

Fire hazard	No
Reactivity Hazard	No
Sudden Release of Pressure Hazard	No
Acute Health Hazard	Yes
Chronic Health Hazard	Yes

#### 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**

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

**SARA 304 Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Reportable Quantity**

This material does not contain any components with SARA 302 RQ.

**16. OTHER INFORMATION**

**NFPA Classification**

Health	2 moderate
Flammability	1 slight
Instability or Reactivity	0 minimal

**HMIS Classification**

Health	2 serious
Flammability	1 slight
Reactivity	0 minimal

**Further information**

Date updated	11/29/2016
Further information	New product SDS

**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
NTP	National Toxicology Program
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NFPA	National Fire Protection Association
HMIS	Hazardous Materials Identification System (Paint & Coating)

**Disclaimer:**

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 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. 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.