

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.
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

In case of inhalation

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 back for subsequent decontamination.

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. Drink1 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 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 Use personal protective equipment. Avoid inhalation of vapors and spray

and emergency procedures

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/m³ ACGIH TLV 100mg/m³ 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.

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

Wear safety glasses with side shields (or goggles)

Eye protection

Hand protection

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. 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:

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.

Ensure that eyewash stations and safety showers are close to the workstation location.

Protective measures

Hygiene measures

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: Amber

Odor Mild.

Odor Threshold
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)

Flammability/Explosive limit

Autoignition temperature

Vapor pressure

Vapor density

Density

Solubility

No data available

Vapor density

No data available

Vapor density

No data available

Vapor density

No data available

77 F (25 C) Soluble

Partition coefficient: n-octanol/water Not applicable, preparation.

Thermal decomposition

Viscosity

No data available

Explosive properties

Oxidizing properties

No data available

No data available

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 Carbon

decomposition (pyrolysis), releases:

Carbon oxides (CO + CO2), nitrogen oxides (NOx)

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

Canadian Domestic Substances List (DSL)

YES (positive listing) On TSCA inventory. 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 materi

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.