

SAFETY DATA SHEET

PRECISION LABORATORIES, LLC

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Cascade™ Plus
Supplier:	PRECISION LABORATORIES, LLC 1429 S. SHIELDS DRIVE WAUKEGAN, IL 60085
Product Use:	Soil Surfactant
Emergency telephone number:	(Chemtrec Information 24 hours) (800) 424-9300
Customer Service, call:	(847) 596-3001

2. HAZARDS IDENTIFICATION

GHS Classification:

Acute Toxicity, Category 4 (oral), H302
Acute Toxicity, Category 4 (inhalation), H332
Skin Irritation, Category 2, H315
Eye Irritation, Category 2A, H319



H302,H332,
H315,H319

Signal Word: Warning

Hazard Statements:

H302: Harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H333: May be harmful if inhaled.

Precautionary Statements:

Prevention

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash protective equipment and work clothes thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear eye protection or face protection.

Response

P302+P352: IF ON SKIN: Wash with plenty of water.
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.
P312: Call a poison center/doctor or Chemtrec if person feels unwell.
P321: Treat symptomatically.
P332+P313: If skin irritation occurs: Get medical advice or attention.
P337+P313: If eye irritation persists: Get medical advice or attention.
P362+P364: Take off contaminated clothing and wash it before reuse.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Weight %
Mixture	Proprietary	100%

4. FIRST AID MEASURES

IF SWALLOWED: Call a POISON CENTER/doctor or Chemtrec if person feels unwell. Rinse mouth. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless directed to do so by medical personnel. Do not give anything to an unconscious person.

IF ON SKIN: Wash affected area with plenty of soap and water. Use tepid water if available. If skin irritation occurs: Get medical advice or attention. Treat symptomatically. Take off contaminated clothing and wash it before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If person is having difficulty breathing, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER/doctor or Chemtrec if person feels unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Medical Conditions Aggravated by Overexposure: Repeated or prolonged exposure is not known to aggravate medical condition.

Other Effects: This product is not a carcinogen by NTP, OSHA and ACGIH.

5. FIREFIGHTING MEASURES

Suitable Extinguishing media: Water spray, foam, CO₂, or dry chemicals or sand.

Specific Hazards: Non-flammable. If product is present in a fire situation, toxic gases may be evolved. Evacuate area and contact emergency services. Remain upwind and notify those downwind of the potential hazard. Full protective equipment including self-contained breathing apparatus is recommended when combating fire. Use waterfog to cool intact containers and nearby storage areas.

PPE and Precautions: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Evacuate the spill area, except for cleanup personnel. Do not release to drain. Wear NIOSH/MSHA-approved respirator and protective equipment. Control spill with adsorbent pads or booms. If necessary, apply granular or loose adsorbent to spill. When absorbed, sweep or otherwise collect and dispose of properly.

Disposal: Dispose of in accordance with federal, state or province, and local regulations.

7. HANDLING AND STORAGE

Keep container closed. Safety goggles and eyewash recommended. USDA-accepted Nitrile (CFR-20) or Neoprene Rubber (CFR-21) recommended. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Product should be stored in a dry place with temperatures above 30°F. Partially used containers should be resealed between uses for maximum storage stability.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits: N/D

Eye/Face Protections: Wear splash-proof chemical safety goggles. Contact lenses should not be worn when working with chemicals.

Skin Protection: Wear coveralls and boots to minimize skin contact. As precautions, wash hands and face with mild soap and water before eating, drinking, smoking or using restroom. After each shift, clean all protective equipment, wash work clothes, and shower.

Respiratory Protection: Not required under normal use conditions with good ventilation. Protect against spray mists.

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General Protection: Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Wash thoroughly after handling product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid	UEL:	N/D
Odor:	Mild odor	LEL:	N/D
Odor Threshold:	N/D	Vapor Pressure:	N/D
pH:	4.4 ± 0.5	Vapor Density:	N/D
Melting Point:	Pour point, 0°C	Relative Density (lbs/gl):	8.42 ± 0.05
Freezing Point:	N/D	Solubility:	Dispersible in water
Boiling Point:	>212°F	Partition Coefficient:	N/D
Flash Point:	>155°C	Autoignition Temperature:	N/D
Evaporation Rate:	N/A	Decomposition Temperature:	N/D
Flammability:	N/D	Viscosity:	330 cps

10. STABILITY AND REACTIVITY

Stability:	Stable
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur
Condition to Avoid:	None known.
Incompatible Materials:	Strong acids and oxidizing agents
Hazardous Decomposition Products:	None known

11. TOXICOLOGICAL INFORMATION

An eye irritation study of the preparation has confirmed the severe eye irritancy, but further testing is ongoing to establish whether a more dilute preparation needs to be similarly classified.

A skin irritation study on the preparation has shown that it is only a mild irritant.

12. ECOLOGICAL INFORMATION

No ecological data is available for this product.

13. DISPOSAL CONSIDERATIONS

Component Waste Numbers:	No EPA Waste Numbers are applicable for this product's components.
Disposal Instructions:	Recycle or rework material if at all possible. Incinerate material at an approved facility. Treat at an acceptable waste treatment facility or municipal waste treatment plant after proper testing and approval waste samples in compliance with applicable federal, state and local environmental regulations.
Container Reuse:	An empty container can contain product residue, and should not be reused. If not professionally cleaned and reconditioned, crushing or other means is recommended to prevent unauthorized reuse

14. TRANSPORT INFORMATION

DOT Status (Highway and rail):	Not Regulated
IATA Status (Air):	Not Regulated
Marine Pollutant:	No

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15. REGULATORY INFORMATION

TSCA: All components of this product are listed under the regulation of the Toxic Substance Control Act.

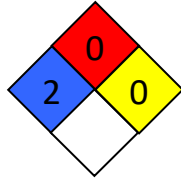
SARA HAZARD: No

16. OTHER INFORMATION

HMIS Hazard Rating

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	X

NFPA Rating



Date Prepared: October 18, 2013

Last Updated: November 1, 2017

WHILE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREON, PRECISION LABORATORIES, LLC MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

N/R—Not Rated

N/D—Not Determined

N/A—Not Applicable

N/E—Not Established

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.