

SAFETY DATA SHEET

PRECISION LABORATORIES, LLC

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **IGNIS**
Supplier: Precision Laboratories, LLC
10016 55th Street
Kenosha, WI 53144
Product Use: Adjuvant
Emergency telephone number: (Chemtrec Information 24 hours) (800) 424-9300
Customer Service, call: (847) 596-3001

2. HAZARDS IDENTIFICATION

GHS Classification:

Eye Damage, Category 1, H318

Aquatic Hazard, Acute, Category 3, H402



Signal Word: Danger

Hazard Statements:

H318: Causes serious eye damage.

H402: Harmful to aquatic life.

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.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response

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 CENTER/doctor if you feel unwell.

Disposal

P501: Dispose of contents/container in accordance with applicable regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Weight %</u>
Ethoxylated amine derivative	Trade secret			25 – 45%
Ethoxylated fatty alcohol	Trade secret			1 – 20%
Citric Acid	77-92-9			1 – 15%

4. FIRST AID MEASURES

IF SWALLOWED: Rinse mouth. Have person sip a glass of water if able to swallow. Do NOT induce vomiting, unless told to by a poison control center or doctor. Do not give anything to an unconscious person. Seek immediate medical attention.

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- 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. Take off contaminated clothing and wash it before reuse. Seek medical advice.
- IF INHALED: Move person to fresh air. If person is having difficulty breathing, give oxygen. If not breathing, give artificial respiration. Get medical advice or attention. Seek medical attention if symptoms persist worsen.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate 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: Use extinguishing media/methods appropriate for surrounding materials/fire, such as carbon dioxide, foam, or dry chemical.

Specific Hazards Arising from the Chemical: Do not inhale explosion and combustion gases. Burning produces heavy smoke.

Hazardous Decomposition Products of Combustion: None known.

PPE and Precautions: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Use water to keep containers cool. Water or foam may cause frothing.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill: Wear protective equipment as referenced in Section 8. Recover free liquid. For recovery or disposal, add inert absorbent (sand, earth, sawdust, etc.) to spill area and shovel into containers for disposal. Product is slippery under foot; flush smooth surfaces thoroughly. Prevent from entering into drains and waterways.

Disposal: Dispose of collected waste in accordance with federal, state and local regulations. Report any environmental discharge to appropriate governmental authorities.

7. HANDLING AND STORAGE

Keep away from heat, sparks and flame. Keep container closed. Wear appropriate equipment and clothing to prevent eye contact and repeated or prolonged skin contact as referenced in Section 8. Use in areas with adequate mechanical exhaust ventilation, or wear respirator. Protect product from freezing. If product freezes, warm to room temperature and agitate before use. Keep containers sealed when not in use. Store in original container only. Do not store together with volatile materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits: None.

Eye/Face Protections: Wear protective eyewear. Contact lenses should not be worn when working with chemicals. If exposure causes eye discomfort, use a full-face respirator.

Skin Protection: Wear chemical-resistant gloves, long-sleeved shirt, long pants, socks and shoes 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. Respirator recommended in areas of poor ventilation or in the presence of dust or mist.

General Protection: Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Wash thoroughly after handling product. When selecting personal protective equipment and clothing, follow all of the manufacturer specifications and recommendations that apply to your specific operation and processing conditions. Take into consideration all working conditions and all chemicals to be handled or processed. Eye wash fountains and drench showers should be located within a 10 second walk from the work area per ANSI Z358.1-2009.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber liquid	UEL:	N/A
Odor:	Mild odor	LEL:	N/A
Odor Threshold:	N/D	Vapor Pressure:	N/D
pH (1% aq):	3.0 – 5.0	Vapor Density:	N/D
Melting Point:	N/D	Relative Density (lb/gal):	8.595 ± 0.2
Freezing Point:	N/D	Solubility in water:	Dispersible
Boiling Point:	>212°F	Partition Coefficient:	N/D
Flash Point:	N/A	Autoignition Temperature:	N/D
Evaporation Rate:	N/D	Decomposition Temperature:	N/D
Flammability:	Not flammable	Viscosity:	N/D

10. STABILITY AND REACTIVITY

Stability:	Stable
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Condition to Avoid:	Stable under normal conditions.
Incompatible Materials:	Strong oxidizers.
Hazardous Decomposition Products:	Not known.

11. TOXICOLOGICAL INFORMATION

No toxicological data exists for this product.

Toxicological information of the main substances found in the product:

Ethoxylate amine derivative

- a) Acute toxicity
OECD 420 Oral Rat > 2000 mg/kg – source: internal data.
- b) Skin corrosion/irritation
Irritation Skin: Slight irritant – source: based on products of similar composition.
- c) Serious eye damage/irritation
OECD 405 Eye Rabbit: Slight irritant – source: internal data.
- d) Respiratory or skin sensitization
Sensitization Skin: Not sensitizing – source: based on products of similar composition.
- e) Germ cell mutagenicity
Mutagenicity: Not mutagenic – source: based on calculation criteria as EU CLP regulations and GHS indication.
- f) Carcinogenicity
Carcinogenicity: Not carcinogenic – source: based on calculation criteria as EU CLP regulations and GHS indication.
- g) Reproductive toxicity
Reproductive Toxicity Negative – source: based on calculation criteria EU CLP regulations and GHS indication.

Ethoxylate fatty alcohol

- a) Acute toxicity
LD50 Oral Rat = 1200 mg/kg – source: literature data.
LD50 Skin Rat = 2000 mg/kg – source: By analogy to product with similar composition.
- b) Skin corrosion/irritation
Irritation Skin Rabbit: May cause slight irritation – source: By analogy to product of similar composition.
- c) Serious eye damage/irritation
Irritation Eye Rabbit: Highly irritating – source: By analogy to product of similar composition.

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- d) Respiratory or skin sensitization
Sensitization Skin Guinea Pig: Not sensitizing – source: By analogy to product of similar composition.
- e) Germ cell mutagenicity
Mutagenicity Bacteria: Not mutagenic – source: By analogy to product of similar composition.
- i) STOT-repeated exposure
NOAEL Oral Rat > 500 mg/kg – Duration: 90 days – source: By analogy to product of similar composition.

Citric acid

- a) Acute toxicity
LD50 Oral Mouse = 5400 mg/kg – source: literature data.
LD50 Skin Rat > 2000 mg/kg – Duration: 24h – source: By analogy to product with similar composition.
- b) Skin corrosion/irritation
OECD 404 Skin Rabbit: Slight irritant – source: Literature data.
- c) Serious eye damage/irritation
OECD 405 Eye Rabbit: Highly irritating – source: Literature data.
- d) Respiratory or skin sensitization
Sensitization Skin in vivo: Potential skin sensitizer – Duration: 48h – source: Literature data.
- e) Germ cell mutagenicity
Ames Test Salmonella typhimurium: Not mutagenic – source: Literature data.
- h) STOT-single exposure
Respiratory Tract Irritant – source: Literature data.

12. ECOLOGICAL INFORMATION

Ecological information of the mixture:

- a) Aquatic acute toxicity
EC50/LC50 >10 - <100 mg/l – aquatic species – Notes: according to the criteria of the GHS.

Ethoxylated amine derivative

- a) Aquatic acute toxicity
Daphnia magna EC50 > 10-100 mg/l – Duration 48h : - Notes : internal data
Algae EC50 > 10-100 mg/l – Duration: 72h – Notes: internal data
Fish LC50 > 10-100 mg/l – Duration: 96h – Notes: internal data
- b) Aquatic chronic toxicity
Algae NOEC = 6.25 mg/l – Notes: internal data
Fish NOEC > 1 mg/l – Notes: By analogy to product with similar composition.
Invertebrates NOEC > 1-16 mg/l – Notes: By analogy to product with similar composition.

Ethoxylated fatty alcohol

- a) Aquatic acute toxicity
Algae EC50 > 1-10 mg/l – Notes: By analogy to product with similar composition.
Daphnia EC50 > 1-10 mg/l - Notes: By analogy to product with similar composition.
Fish LC50 > 1-10 mg/l – Notes: By analogy to product with similar composition.

Persistence and degradability

Ecological information of the mixture:

Biodegradability: Data not available

Ethoxylated amine derivative

Biodegradability: Not readily biodegradable. – Test: OECD 301 D – Duration: 28 days < 60% - Notes: Internal data.

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Ethoxylated fatty alcohol

Biodegradability: Readily biodegradable – Test: OECD 301 D – Duration: 28 days : 88% - Notes: By analogy to product to product with similar composition.

Citric acid

Biodegradability: Readily biodegradable – Test: OECD 301 B – Duration: 28 days : 97% - Notes: Literature data

Bioaccumulative potential

Ecological information of the mixture:

Bioaccumulation: Data not available

Ethoxylated amine derivative

Bioaccumulation: Not bioaccumulative – Notes: By analogy to product with similar composition.

Ethoxylated fatty alcohol

Bioaccumulation: Not bioaccumulative – Test: BCF – Bioconcentration factor 12.7 – Notes: By analogy to product with similar composition.

Mobility in soil

Ecological information of the mixture:

Mobility in soil: Data not available

Ethoxylated amine derivative

Mobility in soil: Data not available

Ethoxylated fatty alcohol

Mobility in soil: Data not available

Other adverse effects

None

Use according to criteria of good industrial practice, avoiding product dispersion in the environment.

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

15. REGULATORY INFORMATION

USA – Federal regulations

TSCA – Toxic Substances Control Act

TSCA inventory: all components are listed on the TSCA inventory

TSCA listed substances:

Ethoxylated amine derivative is listed in TSCA Section 8b.

Ethoxylated fatty alcohol is listed in TSCA Section 8b.

Citric acid is listed in TSCA Section 8b.

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SARA – Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: no substances listed.

Section 304 - Hazardous Substances: no substances listed.

Section 313 – Toxic Chemical List: no substances listed.

Section 311/312 Title III – Immediate (acute) health effects

CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act

No substances listed.

CAA - Clean Air Act

CAA listed substances:

Citric acid is listed in CAA Section 111.

CWA – Clean Water Act

No substances listed.

USA – State-specific regulations

California Proposition 65

No substances listed.

Massachusetts Right to know

No substances listed.

New Jersey Right to know

No substances listed.

Pennsylvania Right to know

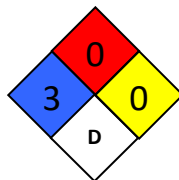
No substances listed.

16. OTHER INFORMATION

HMIS Hazard Rating

HEALTH	3
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	D

NFPA Rating



Date Prepared: February 24, 2026

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.

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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.