



AVISTATIN®

Manufactured by:
YS, Inc
6001 Gault Ave N
Fort Payne, AL 35967

SECTION 1: Identification

1.1. Product identifier

Product name : Avistatin
Product form : Mixture

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

1.3. Details of the supplier of the safety data sheet

Clear View Enterprises, LLC 451
Agnes Drive
Tontitown, AR 72770
Phone: 866-361-4689
www.cvear.com

1.4. Emergency telephone number

Emergency number : CHEMTel: 1-800-255-3924 Account: 00054904

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

GHS-US classification Skin Corr. 1A, H314
Serious Eye Damage 1, H318
Harmful to the aquatic environment 3, H402
Flammable liquids 3, H226
Acute Toxicity-oral 5, H303

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

: H226 - Flammable liquid and vapor.
: H304 - May be harmful if swallowed.
: H314 - Causes severe skin burns and eye damage.
: H402 - Harmful to aquatic life.

Precautionary statements (GHS-US) :

: P260 - Do not breathe mist, spray, vapors
: P264 - Wash hands thoroughly after handling
: P273 - Avoid release to the environment
: P280 - Wear eye protection, face shield, protective gloves, protective clothing
: P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
: P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. 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 doctor, a poison center
: P321 - Specific treatment (see first aid instructions on this label)
: P363 - Wash contaminated clothing before reuse
: P390 - Absorb spillage to prevent material damage.
: P405 - Store locked up
: P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%
Acetic Acid	(CAS No) 64-19-7	< 50
Propionic Acid	(CAS No) 79-09-4	< 90
Sodium Hydroxide Solution	(CAS No) 1310-73-2	< 25

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
First-aid measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.
First-aid measures after skin contact	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. Get medical attention immediately.
First-aid measures after eye contact	: IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.
First-aid measures after ingestion	: IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.

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

Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes severe skin burns and eye damage.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.

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

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Alcohol resistant foam. Dry chemical. Carbon dioxide.
Unsuitable extinguishing media	: None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable in the presence of a source of ignition when the temperature is above the flash point.
Explosion hazard	: No data available.
Reactivity	: No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Hazardous decomposition products formed under fire conditions – Carbon oxides.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8). Evacuate area. Ventilate area. Keep upwind.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear Protective equipment as described in Section 8.
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.
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6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Prevent entry to sewers and public waters.
Methods for cleaning up	: Dispose of material in compliance with local, state, and federal regulations. Ventilate area. Neutralize spills with soda ash or lime. Sweep up material and place in an appropriate chemical waste container for disposal. Do not discharge to sewers or waterways.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Use appropriate personal protection equipment (PPE). Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of reach of children. Keep container tightly closed. Keep in properly labeled containers. Store in a cool dry place. Avoid temperatures over 110°F. Store in plastic, rubber or stainless steel containers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Acetic acid (64-19-7)	
(ACGIH) TWA	10 mg/m ³
(ACGIH) STEL	15 mg/m ³
OSHA TWA PEL	10 mg/m ³
Propionic acid (79-09-4), Remarks Eye, Skin & Upper Respiratory Tract irritation	
OSHA TWA	10 ppm USA. OSHA – Table Z-1 Limits for air 30 mg/m ³ Contaminates – 1910.1000
NIOSH TWA	10 ppm, 30 mg/m ³
Sodium Hydroxide (1310-73-2)	
ACGIH	2 mg/m ³ , Ceiling
OSHA PEL (TWA)	2 mg/m ³
IDLH	10 mg/m ³
NIOSH REL	2 mg/m ³ , Ceiling

a. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas. Emergency Eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment : Wear chemical goggles and gloves. Wear chemically impervious apron over lab coat and full coverage clothing.

Hand protection : Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

Eye protection : Wear eye protection, including chemical splash goggles and a face shield. Goggles and a face shield must be worn in combination.

Skin and body protection : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection : Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, transparent freely flowing liquid.

Color : colourless

Odor : No data available

Odor Threshold : No data available

pH : <5

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : 54°C (129 °F) – closed cup, Propionic Acid

Auto-ignition temperature : 513°C (955°F), Propionic Acid

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat, Flames and sparks

10.5. Incompatible materials

Mild steel.

10.6. Hazardous decomposition products

May form toxic materials.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Acetic Acid (64-19-7)	
LD50 oral rat	3310 mg/kg
Propionic Acid (79-09-4)	
LD50 oral rat	3500-4200 mg/kg
Sodium Hydroxide (1310-73-2)	
LC50 fish 1	45.4 mg/l

Skin corrosion/irritation : may be harmful is absorbed through skin, Causes skin burns. pH: < 5

Serious eye damage/irritation : Causes Eye Burns

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure): Not classified Aspiration hazard : Not classified Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Causes skin burns and eye damage.

Symptoms/injuries after eye contact : Causes eye damage.

Symptoms/injuries after ingestion : May cause gastrointestinal irritation.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities.
No discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations : Dispose of in accordance with local/national regulations. Do not allow the product to be released into the environment. Do not re-use empty containers.

SECTION 14: Transport information

DOT Classification: : Not Regulated

Reportable Quantity: (Component) : RQ

(Acetic Acid) : 5,000 Lbs.

(Propionic Acid) : 5,000 Lbs.

(Sodium Hydroxide) : 1,000 Lbs.

SECTION 15: Regulatory information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components	S. 302 (EHS)	S. 304	S. 313 (TRI)
64-19-7	Acetic Acid	No	No	No
79-09-4	Propionic Acid	No	No	No
1310-73-2	Sodium Hydroxide	No	No	No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

- Yes No Acute (immediate) Health Hazard
- Yes No Chronic (delayed) Health Hazard
- Yes No Fire Hazard
- Yes No Sudden Release of Pressure Hazard
- Yes No Reactive Hazard

15.1. International regulations

CANADA

No additional information available.

SECTION 16: Other information

Revision date : 06/1/2020

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product