



GENESIS FLUIDS LLC

Safety Data Sheet Genesis Gamma LS™

SECTION 1: Identification

1.1 Product identifier

Product name Genesis Gamma LS™

1.2 Other means of identification

Liquid sulfonated asphalt

1.3 Recommended use of the chemical and restrictions on use

Additive for fluids used in oil and gas well drilling. Improves shale stability, filter cake quality, and lubricity, reduces filtrate.

1.4 Supplier's details

Name Genesis Fluids LLC
Address 9701 N. Broadway Ext.
Oklahoma City OK 73114
USA

Telephone (405) 840-0434
email hdearing@genesisfluids.com

1.5 Emergency phone number(s)

CHEMTREC
1-800-424-9300 / +1 703-527-3887

SECTION 2: Hazard identification

General hazard statement

No harmful effects expected in amounts likely to be ingested by accident.

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Sensitization, respiratory, Cat. 1

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2.2 GHS label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H335

H317

H320

May cause respiratory irritation

May cause an allergic skin reaction

Causes eye irritation

Precautionary statement(s)

P261

P284

P304+P340

P342+P311

P501

Avoid breathing dust/fume/gas/mist/vapors/spray.

[In case of inadequate ventilation] wear respiratory protection.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...

Dispose of contents/container to ...

2.3 Other hazards which do not result in classification

Clean up spills promptly. Spilled material will be slippery on hard, smooth surfaces and will present a slipping hazard.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

1. Glycerine

Concentration

> 30 - < 70 % (weight)

EC no.

200-289-5

CAS no.

56-81-5

2. Acid modified petroleum residuum

Concentration

> 15 - < 30 % (weight), Proprietary

CAS no.

N/A

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice

Avoid getting the material on your person or clothing. Material is water soluble and can be washed off of skin and clothing with water.

If inhaled

If symptomatic, move to fresh air. Get medical attention if symptoms persist.

In case of skin contact

Wash skin with soap and water. Get medical attention if symptoms occur after washing.

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In case of eye contact	Wash out immediately with water. If possible, remove contact lenses. Get medical attention if symptoms persist after washing.
If swallowed	Keep respiratory tract clear. If symptoms persist, call a physician.

4.2 Most important symptoms/effects, acute and delayed

None reported

4.3 Indication of immediate medical attention and special treatment needed, if necessary

None reported

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Extinguish with alcohol resistant foam, carbon dioxide, dry powder or water fog. Avoid high volume water jet.

5.2 Specific hazards arising from the chemical

Decomposition products will include carbon oxides and sulfur oxides. Self-contained breathing apparatus and full protective clothing should be utilized if fire occurs in enclosed spaces.

5.3 Special protective actions for fire-fighters

Spilled material will be slippery. Avoid walking on spills.

Further information

Follow standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2 Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert absorbent material and place in container for disposal. Can be flushed with water. Prevent runoff into drains, sewers or streams. Collect fluid for later disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special precautions are necessary beyond normal good hygiene practices. See section 8 of the SDS for additional personal protection advice when handling this product.

7.2 Conditions for safe storage, including any incompatibilities

Store away from incompatible materials like strong oxidizing agents.

Specific end use(s)

Additive for fluids used in oil and gas well drilling. Improves shale stability, filter cake quality, and lubricity, reduces filtrate.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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1. Glycerol (CAS: 56-81-5 EC: 200-289-5)

TWA (Inhalation): 15 mg/m³; USA (OSHA)

USA. Occupational Exposure Limits(OSHA) - Table Z-1 Limits for Air Contaminants

TWA (Inhalation): 10 mg/m³; USA (ACGIH)

USA. ACGIH Threshold Limit Values (TLV)/Upper Respiratory Tract irritation

PEL (Inhalation): 15 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 10 mg/m³ , PNOR (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 5 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 5 mg/m³, PNOR (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

TWA (Inhalation): 5 mg/m³; USA (OSHA)

USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminant

8.2 Appropriate engineering controls

Good general ventilation practices, particularly when mixing within close spaces.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Safety glasses. Available eye wash station.

Skin protection

Minimize skin contact through the use of gloves and protective clothing.

Body protection

Wear normal personal protective equipment including gloves, safety glasses, hard-hat, and safety boots or shoes.

Respiratory protection

If not used in a well ventilated area, wear an approved respirator.

Thermal hazards

None known

Control banding approach

No data available.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)

Black viscous liquid

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Odor	Slight
Odor threshold	N/A
pH	8.5 (3% solution)
Melting point/freezing point	-15 deg F
Initial boiling point and boiling range	> 300 deg F
Flash point	N/A
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability limits	No data available
Upper/lower explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	1.18
Solubility(ies)	Soluble in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Not reactive under normal conditions.

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Will not occur.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Glycerine : Strong bases, Strong oxidizing agents

10.6 Hazardous decomposition products

Glycerine : Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Oral LD50: >5,000 mg/kg

Skin corrosion/irritation

No skin irritation

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Serious eye damage/irritation

No eye irritation

Respiratory or skin sensitization

No respiratory or skin sensitisation

Germ cell mutagenicity

No data available

Carcinogenicity

None

Reproductive toxicity

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12: Ecological information

Toxicity

Not expected to be harmful to aquatic organisms

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

No data available

SECTION 13: Disposal considerations

Disposal of the product

Do not discharge into drains, water courses or onto the ground. Discharge, treatment, or disposal may be subject to national, state, or local laws. Empty containers may contain product residues.

Disposal of contaminated packaging

Empty remaining contents and dispose of packaging as required by local regulations.

Waste treatment

Treat as per local regulations.

Sewage disposal

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Do not dispose as sewage.

Other disposal recommendations

None.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

SARA 302 Components

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

SARA 313 Components

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 311/312 Hazards

Chronic Health Hazard

Massachusetts Right To Know Components

Glycerol

CAS-No. 56-81-5

Pennsylvania Right To Know Components

Glycerol

CAS-No. 56-81-5

New Jersey Right To Know Components

Glycerol

CAS-No. 56-81-5

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

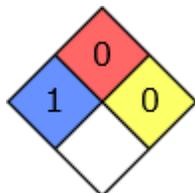
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HMIS Rating

Genesis Gamma LS™	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

NFPA Rating



SECTION 16: Other information