

SAFETY DATA SHEET

1. IDENTIFICATION

SEMITECH GS Product Name:

Manufacturer: Eberle Fluid Technology

8651 Highway N, Ste. 174 Lake St. Louis, MO 63367

1 (877) 632-3753 Telephone:

In case of Emergency: DOMESTIC NORTH AMERICA

> 800-424-9300 INTERNATIONAL

703-527-3887 (collect calls accepted)

Product Description Industrial Metalworking Fluid. See product data sheet for a detailed description of

recommended use.

2. HAZARDS IDENTIFICATION

GHS Classification This material is classified in accordance with OSHA Hazard Communication Standard (29

CFR 1910.1200).

Classification SKIN CORROSION / IRRITATION - Category 2

EYE DAMAGE / IRRITATION - Category 2A

ACUTE TOXICITY - Category 4

GHS Label

Hazard pictogram

Warning Signal word

Hazard Statement H303 - Harmful if swallowed. H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

Precautionary statements

Response

P262 - Do not get in eyes, on skin, or on clothing. Prevention

P264 – Wash hands and any parts of exposure thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

P273 – Avoid release to the environment.

P280 – Wear protective gloves, protective clothing, face and eye protection. P302 + P352 + P362 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse.

P332 + P313 - If skin irritation occurs: Get medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical attention.

Storage Not applicable

Disposal P501 - Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Hazards Not Otherwise Classified

(HNOC)

May be defatting to the skin.



3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: SEMITECH GS is a mixture.		
Components/Ingredients	CAS No.	% Range*
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	5 – 15
2-amino-2-methylpropanol	124-68-5	1 – 5
2-aminoethanol	141-43-5	1 – 5
2,2,2-nitrilotriethanol	102-71-6	1 – 5

^{*}Specific percentages of composition are being withheld as a trade secret.

Additional components, of which may or may not be present, in this mixture are not classified as hazardous to health or the environment and within the current knowledge of the manufacturer or supplier and current regulations, are required to be reported in this section.

Occupational exposure limits, if applicable and available, are listed in Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION.

FIRST AID MEASURES

Eye	Irrigate with flowing water immediately and continuously for a minimum of 15 minutes. If
	waaring contact lancer remove first if able. Sook madical assistance immediately if

wearing contact lenses remove first, if able. Seek medical assistance immediately if

irritation occurs.

Skin Thoroughly rinse contact areas with water and soap. If clothing or shoes are

contaminated; remove immediately and wash before using again. Seek medical attention

immediately if irritation occurs.

Ingestion DO NOT induce vomiting, unless directed to do so by appropriate medical personnel.

Never give anything by mouth to an unconscious person. If person is conscious, rinse out

mouth with water. Seek medical attention immediately.

Inhalation Contact a medical professional immediately. Effects of inhalation are not established. It is

a good practice to remove victim to fresh air and from further exposure when inhalation occurs. If patient experiences irritation to the respiratory system, dizziness, nausea, or unconsciousness, seek medical attention immediately. If breathing has stopped, assist ventilation with a mechanical device or mouth-to-mouth resuscitation. If irritation persists,

consult medical personnel.

Notes to Physician In case of inhalation of decomposition products in a fire, symptoms may be delayed. The

exposed person may need to be kept under medical surveillance for 48 hours. Treatment

should in general be symptomatic and directed to relieving any effects.

Most important symptoms or effects, acute and delayed

For more detailed information on health effects and symptoms see Section 11 –

TOXICOLOGICAL INFORMATION

Description of necessary first aid measures or specific treatments

Treatment should in general be symptomatic and directed to relieving any effects.

FIRE FIGHTING MEASURES

^{*}Proprietary CAS numbers are being withheld as a trade secret.



Alcohol-resistant foam, dry chemical, and carbon dioxide are appropriate extinguishing Extinguishing Media

Unsuitable Extinguishing Media Avoid using water jet.

Specific Hazards from Chemical Not known.

Hazardous Combustion Products Combustion products may include the following: oxides of carbon (CO, CO₂), oxides of

nitrogen, and other undetermined byproducts of combustion.

Special Fire Fighting Instructions Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water

supply. Firefighters should use standard protective equipment and in enclosed spaces, self

- contained breathing apparatus (SCBA).

Contents in closed container, in a fire or if held at a high temperature for extended periods Unusual Fire or Explosion Hazards

of time, may cause a pressure increase and cause the container to burst.

ACCIDENTAL RELEASE MEASURES 6.

Personal Precautions, Protective Equipment, and Emergency **Procedures**

Spilled material may make surfaces slippery.

Wear suitable protective gear, such as: chemically protective gloves, eye protection, chemically protective boots, and chemically protective clothing.

Environmental Precautions Dike spilled material to prevent spreading and any releases of this material to the

environment. DO NOT allow material to enter waterways or water systems. In the case of a spill or accidental release, notify proper authorities in accordance to regulations.

Methods and Materials for Containment and Cleaning Up Dike spilled material and soak up with inert absorbent material, such as: mops, sand, oildri, or fiber media. Dispose of material in accordance with all Federal, State and Local regulations. Do not touch or walk through spilt material. Avoid breathing vapor or mist.

Provide adequate ventilation.

7. HANDLING AND STORAGE

Ensure adequate ventilation. Keep out of reach of children or individuals not educated Handling

and familiar with the potential hazards of this material. Avoid contact with eyes. Do not ingest. Avoid prolonged or repeated contact with skin. Do not mix or contaminate with other chemicals. Do not eat, drink or smoke while using this product. Avoid high heat, flames, ignition sources, or UV light. Wear appropriate PPE, avoid breathing vapor or mist. Empty containers retain product residue and can be hazardous. Keep in the original container or an alternative made from a compatible material; keep closed when not in

use. Do not reuse original container.

Storage Store in a closed, properly labeled container, in accordance with all regulations. Store in

the original container, away from direct sunlight, and incompatible materials. Store at

temperatures below 100°F. Keep container tightly sealed when not in use.

EXPOSURE CONTROLS / PERSONAL PROTECTION 8.

Engineering Controls The level of protection and types of controls necessary will vary depending upon

potential exposure conditions. Showers, eyewash stations, and ventilation systems are

appropriate.

Environmental Controls Comply with applicable environmental regulations limiting discharge to air, water and



soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

Exposure Limit Values

Metalworking Fluids – Particulates Not Otherwise Classified OSHA – TWA

15 mg/m³ (8 hour)

NIOSH - TWA REL (Recommended Exposure Limit)

0.5 mg/m³ total particulate (10 hour / day; 40 hour work week)

Mineral Oil (component) OSHA – PEL

5 mg/m³ TWA (8 hours)

ACGIH - TLV

5 mg/m³ – TWA (8 hours) Inhalable fraction

NIOSH - REL

 5 mg/m^3 – TWA (10 hours) Mist 10 mg/m^3 – STEL (15 minutes) Mist

2-aminoethanol (component) OSHA – PEL

6 mg/m³ TWA (8 hours)

ACGIH - TLV

1 mg/m³ TWA (8 hours) – Inhalable fraction and vapor

6 ppm STEL (15 minutes)

NIOSH - REL

15 mg/m³ TWA (10 hours) 8 mg/m³ STEL (15 minutes)

2,2,2-nitrilotriethanol (component)

ACGIH – TLV

5 mg/m³ – TWA (8 hours)

Personal Protective Equipment

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Eye / Face Protection

If contact from spray or splashing, safety glasses with side-shields are recommended.

Skin Protection

Wear suitable chemical resistant gloves while handling concentrate and water extended product. Use of chemically resistant gloves is recommended when in contact for prolonged periods or by individuals whom are dermally sensitive. When the risk of skin exposure is high, chemical resistant aprons and/or impervious chemical suits and boots may be required. PPE for the body should be selected based on the potential for contact with the product and the potential risks involved if contact may occur.

Respiratory Protection

The choice of respiratory protections is dependent upon the environment the product is being used and the environment of the product is used in. Safety procedures should be

developed for all intended conditions of handling and use of this product.

Special Instructions for Protection and Hygiene

Provide readily accessible eye wash stations and safety showers. Wash hands at the end of each work shift and before eating, smoking or using the toilet.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odor Odor Threshold Golden to Amber Colored, Liquid Mild Odor Not Determined



рН 9.30 - 9.60 @ 5.0% w/w in water

Meltina Point / Freezina Point <32°F (0°C) Initial Boiling Point and Boiling Range Not Determined

>200°C Flash Point

Evaporation Rate (Butyl Acetate @ 25°C = 1) <1

Flammability (solid, gas)

Not Applicable Upper Explosive Limit / Lower Explosive Limit Not Applicable Vapor Pressure (Water @ 20°C = 17.5 mmHg) Not Determined Vapor Density Not Determined

Specific Gravity (20°C) 0.99 - 1.03Miscible Solubility

Partition Coefficient (n-octanol / water) Not Determined Auto-ignition Temperature Not Determined **Decomposition Temperature** Not Determined Viscosity Not Determined

10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended handling and storage conditions.

Conditions to Avoid Avoid high heat, flames, and ignition sources, UV light, and incompatible materials.

Flammable vapors may form from atomizing or holding material at temperatures above

flash point.

Incompatible Materials Strong Oxidizers, acid, alkali.

Hazardous decomposition

materials

Carbon dioxide, carbon monoxide, oxides of nitrogen and other unknown incomplete

products of combustion.

Reactivity Not expected.

Other Information This mixture contains alkanolamines. Nitrites or other nitrosation compounds may react

with components in this material to form potentially carcinogenic nitrosamines.

TOXICOLOGICAL INFORMATION 11.

Likely Routes of Exposure: Skin Contact, Eye Contact

Potential Acute Health Effects

Eye Contact Causes serious eye irritation. Category 2A

Skin Contact Causes skin irritation. Category 2

Inhalation Not determined. Inhalation of products of decomposition may cause health hazard.

Serious effects may be delayed after exposure. Repeated or prolonged exposure to mist

may produce respiratory tract irritation.

Ingestion May be harmful if swallowed.

Component Result Species Dose Exposure

Mineral oil LD50 Dermal Rabbit >2,000 mg/kg LD50 Oral Rat >5,000 mg/kg 2.2.2-nitrilotriethanol LD50 Dermal Rabbit >2,000 mg/kg LD50 Oral Rat 4,190 mg/kg 2-aminoethanol LD50 Dermal Rabbit 1,025 mg/kg LD50 Oral 10.2 g/kg Rat LD50 Oral Mouse 700 mg/kg LD50 Oral 620 mg/kg Guinea pig

Symptoms related to; physical, chemical and toxicological characteristics **Eve Contact** Irritation, dryness, stinging, tearing.

Skin Contact Irritation, redness, defatting, drying, and cracking. Sensitive individuals or persons with

open wounds may experience higher degrees of irritation.



Inhalation Not determined, may cause respiratory irritation.

Ingestion Not determined.

Component Dose Result Species Exposure

Eyes – Mild irritant 2,2,2-nitrilotriethanol Rabbit 10 mg Eves – Severe irritant 20 ma Rabbit

> Skin – Mild irritant Human 15 mg 72 hours Skin - Mild irritant Rabbit 560 mg 24 hours

Delayed / Chronic Health Effects

Eye Contact Irritation, dryness.

Skin Contact Irritation, redness, defatting, drying, and cracking.

Inhalation Preexisting respiratory conditions may be aggravated by exposure.

Ingestion Information based on components of this mixture have may indicate that prolonged or

repeated exposure may cause liver and kidney damage.

Skin Corrosion / Irritation Category 2 Eye Damage / Irritation Category 2A

Skin Sensitizer Mixture not determined Respiratory Sensitizer Mixture not determined Germ Cell Mutagenicity Mixture not determined Teratogenicity Mixture not determined Developmental Mixture not determined Fertility Mixture not determined Carcinogenicity Mixture not determined Reproductive Toxicity Mixture not determined **Aspiration Toxicity** Mixture not determined Specific Target Organ Toxicity -Mixture not determined

Single Exposure

Specific Target Organ Toxicity -

Repeated Exposure

Mixture not determined

Additional information This mixture contains alkanolamines. Nitrites or other nitrosation compounds may react with

components in this material to form potentially carcinogenic nitrosamines.

12. **ECOLOGICAL INFORMATION**

Aquatic Toxicity Do not release into waterways, water systems, or land. Material is water soluble. May cause adverse physical affects to aquatic organisms. Not expected to be toxic to aquatic

organisms. Not determined for classification under 1910.1200.

Component Result **Species Exposure** 2,2,2-nitrilotriethanol EC50 216 mg/L Algae – Desmodesmus subspicatus 72 hours EC50 169 mg/L Algae – Desmodesmus subspicatus 96 hours LC50 10,600 mg/L (flow) Fish – Pimephales promelas 96 hours LC50 > 1000 mg/L (static)Fish – Pimephales promelas 96 hours LC50 > 450 mg/L (static)Fish - Lepomis macrochirus 96 hours EC50 1,386 mg/L (static) Water Flea – Daphnia magna 24 hours Fish – Oncorhynchus mykiss 2-aminoethanol LC50 114 - 196 mg/L 96 hours

Terrestrial Toxicity Not determined.

Persistence and Degradability Expected to be partially biodegradable.

Bioaccumulative Potential Mixture not determined. Mobility in Soil Mixture not determined.

Other Adverse Ecological Effects Complete ecological effects of this mixture are not known. Do not release into waterways,

water systems, or environment.

13. **DISPOSAL CONSIDERATIONS**



Disposal recommendations based on material as supplied. Disposal must be in accordance with all current applicable federal, state, and local laws and regulations, and material characteristics at time of disposal. Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty containers should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste, nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, toxicity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Marine Pollutant - Not determined

Spilled material may be a slip hazard.

14. TRANSPORT INFORMATION

UN Number Not Applicable
UN Proper Shipping Name Not Applicable
Transport Hazard Class Not Applicable
Packing Group Not Applicable

Environmental Hazards

Transportation in Bulk (Annex II of MARPOL

73/78 and IBC Code)
Special Precautions

U.S. DOT / Canadian TDG

Not Regulated for shipping

IMO / IDMG

Not determined

IMO / IDMG
ICAO / IATA
Not determined
ADR / RID
Not determined

15. REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: The hazard classifications of this substance / mixture were made congruent to the Occupational Safety and Health Standards, established in OSHA Regulation Standards 29 CFR 1910.1200.

Complies with the following national/regional chemical inventory requirements: TSCA, DSL, EINECS

EPCRA SECTION 302: This material contains no extremely hazardous substances.

EPA SARA Title III Section 311/312 (40 CFR 370) Hazard Classification: Immediate (acute) health hazard, Skin corrosion or irritation, Serious eye damage or irritation

EPA SARA Title III Section 313 (40 CFR 372): Not Applicable

CLEAN WATER ACT (CWA): Not Applicable

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects or other harm.

ADDITIONAL INFORMATION

Revision Date: October 2, 2018

Revision #: 3.0

Supersedes Revision #: DML-2



Prepared or Revised By: Eberle Fluid Technology

This SDS prepared for this substance / mixture was made congruent to the Occupational Safety and Health Standards, established in OSHA Regulation Standards 29 CFR 1910.1200.

HMIS	Health	Flammability	Physical Hazard	PPE
	2	1	0	B
NFPA	Health	Flammability	Chemical Reactivity	Special Hazards
	2	1	0	None Known

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