

SAFETY DATA SHEET

1. IDENTIFICATION

Product Name: ELIMINATOR 108- Semi-Synthetic

Other means of identification: None

Supplier: HE&M Inc.

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

recommended use.

HAZARDS IDENTIFICATION

GHS Classification

This material is classified as hazardous 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

Signal word Warning Hazard Statement H303 – Harmful if swallowed.

H319 - Causes serious eye irritation.

H315 – Causes skin irritation.

Precautionary statements

Response

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

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:

Components/Ingredients	CAS No.	% Range*
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	10 – 20
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.

4. FIRST AID MEASURES

Eye Irrigate with flowing water immediately and continuously for a minimum of 15 minutes. It	Eye	Irrigate with flowing water immediately and continuously for a minimum of 15 minutes. If
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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 moth-to-moth 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

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



Description of necessary first aid measures or specific treatments

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

FIRE FIGHTING MEASURES

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

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

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

ACCIDENTAL RELEASE MEASURES

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. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway. The

National Response Center can be contacted at (800)424-8802.

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.

HANDLING AND STORAGE

Handling

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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)

Distillates (petroleum),

hydrotreated heavy naphthenic

OSHA - PEL

5 mg/m³ TWA (8 hours)

ACGIH - TLV

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

NIOSH - REL

5 mg/m³ – TWA (10 hours) Mist 10 mg/m³ – 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

 $5 \text{ mg/m}^3 - \text{TWA (8 hours)}$

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 Provide readily accessible eye wash stations and safety showers. Wash hands at the end

Protection and Hygiene of each work shift and before eating, smoking or using the toilet.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance Amber Liquid
Odor Mild Odor

Odor Threshold Not Determined

pH 9.30 – 9.60 @ 5.0% w/w in water

Melting Point / Freezing Point <32°F (0°C)
Initial Boiling Point and Boiling Range
Flash Point Not Determined
Not Determined

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 – 1.03 Solubility Miscible

Partition Coefficient (n-octanol / water)
Auto-ignition Temperature
Decomposition Temperature
Viscosity

Not Determined
Not Determined
Not Determined
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.

Incompatible Materials Strong oxidizers, acid, bases.

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.

11. TOXICOLOGICAL INFORMATION



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.

May be harmful if swallowed. Ingestion

Component Species Exposure Result Dose Distillates (petroleum), LD50 Dermal Rabbit >2,000 mg/kg

hydrotreated heavy

naphthenic

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 10.2 g/kg LD50 Oral Rat LD50 Oral 700 mg/kg Mouse

LD50 Oral Guinea pig 620 mg/kg

Symptoms related to; physical, chemical and toxicological characteristics

Eye 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.

Not determined, may cause respiratory irritation. Inhalation

Ingestion Not determined.

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 Mixture not determined Respiratory Sensitizer Germ Cell Mutagenicity Mixture not determined Mixture not determined Teratoaenicity **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 - Single Mixture not determined

Exposure

Specific Target Organ Toxicity -Mixture not determined

Repeated Exposure

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

with components in this material to form potentially carcinogenic nitrosamines.

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.

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.

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

Terrestrial Toxicity

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.

14. TRANSPORT INFORMATION

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

Environmental Hazards Marine Pollutant – Not determined

Transportation in Bulk (Annex II of MARPOL

Transportation in Bulk (Annex II of MARPOL 73/78 and IBC Code)

Special Precautions Spilled material may be a slip hazard.

U.S. DOT / Canadian TDG Not Regulated for shipping

IMO / IDMGNot determinedICAO / IATANot determinedADR / RIDNot 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.



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

CLEAN AIR ACT (CAA): Triethanolamine

CLEAN WATER ACT (CWA): Not Applicable

California Proposition 65: This product does not contain any products known to the state of California to cause birth defects and/or other reproductive harm.

16. ADDITIONAL INFORMATION

Revision Date: July 25, 2019

Revision #: 3.1

Supersedes Revision #: 3.0

Prepared or Revised By: HE&M Inc.

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	В
NFPA	Health	Flammability	Chemical Reactivity	Special Hazards
	2	1	0	None Known

Disclaimer: The information presented herein has been compiled from sources considered to be dependable and is accurate as of the date issued. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use are beyond our control, we make no warranty regarding the accuracy of such data or its suitability for any use or for any consequence of its use. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Safe handling and use remain the responsibility of the purchaser and the purchaser has the sole responsibility to determine the suitability of the materials for any use and the manner of user contemplated. We assume no responsibility for injury to the recipient or to third persons or for any damage to any property and the recipient assumes all such risks.