

SAFETY DATA SHEET

1. IDENTIFICATION

Product Name: **ELIMINATOR 203 – Premium Soluble**

Other means of identification: None

Supplier: HE&M Inc.
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 Mid America Industrial Park
 Pryor, OK 74361

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Recommended Use: Metalworking Fluid Concentrate. See product data sheet for full description on use.

2. HAZARDS IDENTIFICATION

Physical Hazards	SKIN CORROSION / IRRITATION	Category 2
Health Hazards	SERIOUS EYE DAMAGE/EYE IRRITATION	Category 2A
Environmental hazards	Not Classified	
OSHA defined hazards	Not Classified	
GHS Label		
Hazard pictogram		
Signal word	Warning	
Hazard Statement	H319 - Causes serious eye irritation. H315 - Causes skin irritation.	
Precautionary statements		
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.	
Response	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.	

HEM[®] ELIMINATOR II METALWORKING FLUIDS

Storage Disposal	Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention. Not applicable
Hazards Not Otherwise Classified (HNOC)	P501 – Dispose of contents and container in accordance with all local, regional, national and international regulations. 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	50 – 60
Fatty acids, tall oil compounds	68953-28-6	5 – 10
Alcohols, C12-C15, ethoxylated	68131-39-5	1 – 5

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

*Proprietary CAS numbers 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. 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 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.

5. 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, CO ₂), 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.

6. 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.
Methods and Materials for Containment and Cleaning Up	Dike spilled material and soak up with inert absorbent material, such as: mops, sand, oil-dri, 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

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. Comply with applicable environmental regulations limiting discharge to air, water and soil.
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HEM[®] ELIMINATOR II METALWORKING FLUIDS

Environmental Controls	Protect the environment by applying appropriate control measures to prevent or limit emissions.
Exposure Limit Values	
Metalworking Fluids – Particulates Not Otherwise Classified	<p>OSHA – TWA 15 mg/m³ (8 hour)</p> <p>NIOSH – TWA REL (Recommended Exposure Limit) 0.5 mg/m³ total particulate (10 hour / day; 40 hour work week)</p>
Mineral Oil (component)	<p>OSHA – PEL 5 mg/m³ TWA (8 hours)</p> <p>ACGIH – TLV 5 mg/m³ – TWA (8 hours) Inhalable fraction</p> <p>NIOSH – REL 5 mg/m³ – TWA (10 hours) Mist 10 mg/m³ – STEL (15 minutes) Mist</p>
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Golden to Amber Colored, Liquid. Blue dyed.
Odor	Mild Odor
Odor Threshold	Not Determined
pH	9.50 (neat)
Melting Point / Freezing Point	<32°F (0°C)
Initial Boiling Point and Boiling Range	Not Determined
Flash Point	Not Determined
Evaporation Rate (Butyl Acetate @ 25°C = 1)	Not Determined
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
Relative Density (20°C)	0.97 – 0.99
Solubility	Emulsifiable
Partition Coefficient (n-octanol / water)	Not Determined
Auto-ignition Temperature	Not Determined
Decomposition Temperature	Not Determined
Viscosity	>21 mm ² /s (40C)

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 acids and oxidants.
Hazardous decomposition materials	Hazardous decomposition products are not expected to form under normal storage conditions.
Reactivity	Not expected.
Other Information	None Known.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Skin Contact, Eye Contact, Inhalation

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	

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.
Inhalation	Not determined, may cause respiratory irritation.
Ingestion	Not determined.

Component	Result	Species	Dose	Exposure
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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 – Single Exposure Mixture not determined
 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. 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
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.	

Exposure

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.

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 73/78 and IBC Code)	
Special Precautions	Spilled material may be a slip hazard.
U.S. DOT / Canadian TDG	Not Regulated for shipping
IMO / IDMG	Not determined
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:

AICS	DSL	NDSL	IECSC	EINECS	ELINCS	ENCS	ECL	NZIoC	Philippines	TSCA
No	Yes	No	No	Yes	No	No	No	No	No	Yes

EPCRA – Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity:

Components	CAS-No	Component RQ (lbs)	Calculated product RQ (lbs)
N/A	N/A	N/A	N/A

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No	Component RQ (lbs)	Calculated product RQ (lbs)
N/A	N/A	N/A	N/A

*, Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards: Acute Health Hazard

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

SARA 313: The following components are subject to reporting levels established by SARA Title III, Section 313:

Clean Air Act:

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F)

This product does not contain any chemicals listed under the U S Clean Air Act Section 111 SOCMl Intermediate or Final VOC's (40 CFR 60.489).

CLEAN WATER ACT (CWA):

This product does not contain any substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A:

This product does not contain any substances listed under the U.S. Clean Water Act, Section 311, Table 117 .3:

This product does not contain any toxic pollutants listed under the U.S Clean Water Act Section 307.

California Proposition 65:

This product does not contain any chemical known to the state of California to cause cancer and/or birth defects or other reproductive harm.

16. ADDITIONAL INFORMATION

Revision Date: February 8, 2019

Revision #: 1.0

Supersedes Revision #: NEW

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
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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.