

SAFETY DATA SHEET

IDENTIFICATION

Product Name: ELIMINATOR 212 - Exotics Plus

Manufacturer: HE&M Inc.

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Product Description ELIMINATOR 212 – Exotics Plus is a premium semi-synthetic, water miscible, metalworking fluid

concentrate. 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

GHS Label Hazard pictogram

Signal word Warning
Hazard Statement Causes skin irritation

Causes serious eye damage

Precautionary statements

Response

Prevention Wash hands and any potentially exposed skin thoroughly after handling. Wear protective gloves. Wear proper eye or face protection.

IF ON SKIN: Wash with plenty of water and mild soap.
IF SKIN IRRITATION OCCURS: Get medical attention.
Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

IF EYE IRRITATION PERSITS: Get medical attention.

Storage Not applicable
Disposal Not applicable

Hazards Not Otherwise Classified (HNOC) May be defatting to the skin.



Health	Flammability	Physical Hazard	PPE
1	1	0	В
Health 1	Flammability 1	Chemical Reactivity 0	Special Hazards None Known
	Health 1 Health 1	1 1	1 1 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: ELIMINATOR 212 – Exotics Plus is a semi-synthetic mixture, composed of; severely hydrotreated mineral oil, surfactants, lubricity and corrosion additives.

Components/Ingredients	CAS No.	% Range*
Heavy Hydrotreated Naphthenic Distillates (petroleum)	64742-52-5	<30
Polymer	Proprietary*	<30
Tall oil rosin and fatty acids	8002-26-4	<10
Oleylamine, ethoxylated	26635-93-8	<10
Polyol ester	Proprietary*	<10
Orthoboric acid, compound with 2-aminoethanol	26038-87-9	<5
2-methyl-2,4-pentanediol	107-41-5	<5
Tris(2-hydroxyethyl)amine	102-71-6	<2

^{*}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. If wearing contact lenses remove first, if capable. Seek medical assistance immediately if irritation occurs.
Skin	Thoroughly rinse contact areas with ample amounts of water and soap. If clothing or shoes are contaminated; remove immediately and wash before using again. Seek medical assistance 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 a person vomits when lying on their back, immediately place them in the recovery position to prevent aspiration of vomit. If person is conscious, rinse out mouth with water. Seek medical attention immediately.
Inhalation	If inhaled, move to fresh air. The exposed person may need to be kept under medical attention to monitor for delayed symptoms. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be required. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Seek medical attention immediately. In case of fire and combustion products are inhaled, keep exposed personnel under medical surveillance as symptoms may be delayed.

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



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 5.

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 In fire or under extreme heat, closed containers may pressurize causing the

container to burst.

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 Keep people away and evacuate the area. 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). Use water spray to cool fire exposed surfaces and

to protect personnel.

Unusual Fire or Explosion Hazards

Flash Point (COC)

>100°C

Auto Ignition Temperature

Not determined

LEL: Not determined

UEL: Not determined **Explosion Limits**

None known.

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. 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, 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.

HANDLING AND STORAGE 7.



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)

Boric acid – Inhalable Fraction

ACGIH TLV

6 mg/m³ STEL (15 minutes); 2 mg/m³ TWA (8 hours)

Heavy Hydrotreated Naphthenic Distillates (petroleum) - Oil Mist

OSHA - PEL

5 mg/m³ (8 hours) TWA

ACGIH - TLV

 $5\,mg/m^3$ (8 hours) TWA

Tris(2-hydroxyethyl)amine

ACGIH - TLV

5 mg/m3 (8 hours) TWA

2-methyl-2,4-pentanediol

ACGIH - TLV

121 mg/m³ Ceiling

NIOSH - REL

25 ppm Ceiling



Personal Protective Equipment Personal protective equipment selections vary based on potential exposure

conditions such as applications, handling practices, concentration and ventilation. 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 Amber, Clear, Liquid

Odor Mild Odor Odor Threshold Not Determined

oH 9.0 – 9.3 @ 5.0% in water

Melting Point / Freezing Point <32°F (0°C)

Initial Boiling Point and Boiling Range Decomposition expected before boiling point

Flash Point >100°C (Open Cup)

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)
Vapor Density

Not Determined
Not Determined
Not Determined
0.95 - 1.10

Specific Gravity (20°C) 0.9 Solubility Mi

Solubility Miscible in Water
Partition Coefficient (n-octanol / water) Not Determined
Auto-ignition Temperature Not Determined
Decomposition Temperature Not Determined
Viscosity 60 - 80 cSt @ 20°C

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 Oxidizers, acid, alkali, and water.

Hazardous decomposition Carbon dioxide, carbon monoxide, oxides of nitrogen, and other

materials unknown incomplete products of combustion.

Reactivity Not expected.



11. TOXICOLOGIAL INFORMATION

Likely Routes of Exposure: Skin Contact, Eye Contact

Potential Acute Health Effects

Eye Contact May cause serious eye irritation.
Skin Contact May cause skin irritation.

Inhalation Inhalation of products of decomposition may cause health hazard. Serious effects may

be delayed after exposure.

Ingestion May cause gastrointestinal irritation.

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 Ingestion Not determined

Delayed / Chronic Health Effects

Eye Contact
Skin Contact
Inhalation
Ingestion

Not determined
Not determined
Not determined

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

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.

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. Not determined for

classification under 1910.1200.

Terrestrial Toxicity Not determined.

Persistence and Degradability Expected to be biodegradable.

Bioaccumulative Potential Not expected to accumulate in organisms.

Mobility in Soil 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 CONSIDERATONS

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, corrositivity, toxicity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

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

Spilled material may be a slip hazard.

Marine Pollutant - Not determined

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

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

NMFC Number

Freight Class 55

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

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): Not Applicable

CLEAN WATER ACT (CWA): Not Applicable

California Proposition 65: This product may contain; 1,4-doxane, propylene oxide, ethylene oxide, chemicals known to the State of California to cause cancer, birth defects or other harm.



16. ADDITIONAL INFORMATION

Revision Date: July 12, 2017

Revision #: HEM-3

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.

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 remains 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.