



- Chronic Effects** Prolonged exposure may cause chronic effects.
- Aggravated Medical Conditions** Personnel with pre-existing skin disorders should avoid contact with this product.
- Environmental Hazard** See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula Mixture

Chemical Name	CAS-No	Weight %
Lubricant Base Oil (Petroleum) Highly refined synthetic oils (C15-C50)	Mixture*	80-90%
Engine Oil Additive Mixture	Proprietary and Confidential	5-20%
Anti-Wear additive mixture	Proprietary and Confidential	5-10%

This product does not contain known hazardous materials at the $\geq 1\%$ level or known carcinogens at the $\geq 0.1\%$ level as defined by 29 CFR 1910.1200.

* Exact % of composition is being withheld as a trade secret.

**The exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

- Eye Contact** Flush with large amounts of water for 15 minutes. Get medical attention if eye irritation develops or persists. If material is hot, treat for thermal burns and take victim to the hospital immediately.
- Skin Contact** Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Get medical attention immediately if skin discoloration occurs.
- Inhalation** This material is not expected to present an inhalation exposure at ambient conditions.
- Ingestion** Never give anything by mouth to an unconscious person. Do not induce vomiting. Get immediate medical attention or advice.
- Notes to Physician** Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Flammable Properties** NOT FLAMMABLE
- Flash Point** >400 °F
- Suitable Extinguishing Media** Water fog, Foam, CO₂, dry chemical
- Unsuitable Extinguishing Media** Not Available
- Hazardous Combustion Products** Not Available
- Explosion Data**
- Sensitivity to Mechanical Impact** Not sensitive.
 - Sensitivity to Static Discharge** Not sensitive.
- Protective Equipment and Precautions for Firefighters** Wear positive pressure self-contained breathing apparatus (SCBA). Use water to cool containers



exposed to flames. Structural firefighters' protective clothing will only provide limited protection. Mist or sprays may be flammable below the product normal flash point.

NFPA Health Hazard 0 **Flammability** 1 **Stability** 0 **Physical and Chemical Hazards** -

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions** Use personal protective equipment. Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation. If spilled, take caution, as material can cause surfaces to become very slippery.
- Methods for Containment** Dike far ahead of liquid spill for later disposal.
- Methods for Cleaning Up** Pick up free liquid for recycle and/or disposal. Residual liquid and/or solid can be absorbed on inert material.
- Evacuation Procedures**
Large Spill Consider initial downwind evacuate for at least 300 meters (1000 feet).
Fire If tank, rail car or tank car is involved in a fire, isolate for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions.
- Reporting Requirements** Spills that enter a water body must be reported immediately to the USEPA's National Response Center at (800)424-8802. Check with your local and state regulators regarding their reporting requirements.

7. HANDLING AND STORAGE

- Handling** Do not pressure, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode. See NFPA 30 and OSHA 1910.106 – flammable and combustible liquids.
- Storage** Store away from heat, sparks, open flame, or strong oxidizing agents in closed and properly labeled containers. Empty containers retain product residue (liquid, and/or vapor) and can be dangerous

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Lubricant Base Oil (Petroleum) Highly refined synthetic oils	5 mg/m ³ 8 hour(s). Form: Mist	5 mg/m ³ 8 hour(s). Form: Mist	2,500 mg/m ³
Detergent/Inhibitor System Mixture		5 mg/m ³ 8 hour(s). Form: Mist	

- Engineering Measures** Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended limits.
- Personal Protective Equipment**
Eye/Face Protection Safety glasses or face shield where splashing is possible. Full face-shield to be worn during emergencies.
Skin and Body Protection As needed to prevent repeated skin contact. Solvent resistant gloves should be used if needed.



Respiratory Protection Not normally needed. During emergencies wear respirator.

Hygiene Measures Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear light yellow liquid	Odor	Mild Petroleum Oder
Physical State	Liquid	pH	N/A
Flash Point	>400 °F	Autoignition Temperature	>315°C /600°F
Boiling Point/Range	No data	Freezing Point	<-40°C
Explosion Limits	N/A	Flammability Limits in Air	N/A
Specific Gravity	0.86 – 0.88	Solubility	Negligible
Evaporation Rate	N/A	Vapor Pressure	<0.01
Vapor Density	Not Determined	Density	N/A

10. STABILITY AND REACTIVITY

Stability STABLE under recommended storage conditions and room temperature.

Incompatible Products Open Flame and strong oxidizing agents.

Conditions to Avoid Heat, flames, and sparks.

Hazardous Decomposition Products Combustion products may include smoke, fumes, oxides of phosphorus, boron, sulfur, nitrogen, carbon dioxide, carbon monoxide, and other low molecular weight hydrocarbons.

Hazardous Polymerization None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Test on similar materials show a low order of acute oral and dermal toxicity.

Acute Oral Effects Test on similar materials indicates low order of acute toxicity.

Acute Inhalation Effects Low acute toxicity expected on inhalation.

Skin Effects Practically non-toxic if absorbed. Other similar highly refined products have not shown skin tumors in mouse skin painting studies.

Eye Irritation Minimal irritation on contact. Eye irritation slightly or practically non-irritating base on similar products.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Lubricant Base Oil (Petroleum) Highly refined synthetic oils (C15-C50)	Not Available	Not Available	Not Available

Chronic Toxicity

Chronic Toxicity Prolonged exposure may cause chronic effects. On rare occasions, prolonged and repeated exposure to oil mist poses a risk of pulmonary disease such as chronic lung



inflammation. This condition is usually asymptomatic as a result of repeated small aspirations.

Carcinogenicity Not considered a potential carcinogen base on IP346 DMSO of less than 3.0 wt%

Target Organ Effects Respiratory system, Eyes, Skin,

Genotoxicity This product is considered non-mutagenic and has negative potential for tumor development based on from Modified Ames Assay, with Mutagenic Index of less than 1.0.

12. ECOLOGICAL INFORMATION

Ecotoxicity If applied to leaves, this product may kill grasses and small plants by interfering with transpiration and respiration. This product is not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water. Product may be moderately toxic to amphibians by preventing dermal respiration. This product may cause gastrointestinal distress to birds and mammals through ingestion during pelage grooming.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Lubricant Base Oil (Petroleum) Highly refined SYNTHETIC base oils	Not Available	Not Available	Not Available	Not Available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with local regulations. Keep this product out of sewers and waterways.

Contaminated Packaging Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
	X	X	X	X	X	X	X	X

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories



Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

If spilled into navigable waters it is reportable to National Response Center, 800-424-8802. Reportable Quantity = Oil Sheen present on navigable water surface. (40 CFR 116; 401.15)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

Florida

No listed ingredients are present

Massachusetts RTK

No listed ingredients are present

Minnesota RTK

No listed ingredients are present

New Jersey RTK

Lists petroleum oil, but this product does not contain hazardous ingredients.

Pennsylvania RTK

Lists petroleum oil, but this product does not contain hazardous ingredients greater than 3%.

Illinois DOL TSL

No listed ingredients are present

International Regulations

Mexico – Grade

No information available.

Canada

Not listed on the Canadian Controlled Product Ingredient Disclosure and is compliant with Controlled Products Regulation

CONEG Metals

Since cadmium, chromium, lead and mercury are not detectable and it does not exceed 100ppm total in this product, it is compliant with CONEG Metals regulation.

EEC (Europe)

This product is not known to be a dangerous good internationally.

R-Phrases

R45: May Cause Cancer

S-Phrases

S53: Avoid exposure - obtain special instructions before use.

S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazard Label

None

Danger Symbol

None

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Prepared By

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Revision Date

August 6, 2018



TRiAX AGRA PLUS ESP 15W-40
MSDS NO 594441231

Revision Date: **August 6, 2018**

Revision Note None

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End MSDS