

Safety Data Sheet

According to OSHA Hazard Communication 29 CFR Part 1910.1200



SECTION 1. Identification

Product Code 50267 **Control Number:** 0006

Product Name: Dynamo Ultra All-In-One Cetane Booster Diesel Additive

**Supplier
Manufacturer** ASI Chemical Inc. 1901 State Road 60 West
Lake Wales, FL 33859
(863) 678-1814
Email: Cindy@ASIChemical.com

24 hr. Emergency:

INFOTRAC: 1-800-535-5053

Outside U.S. and Canada Infotrac: 352.323.3500

NOTE: INFOTRAC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals

Alternate Suppliers: Champion Brands and EMCO Chem. Dist,

SECTION 2. Hazard(s) Identification

***** EMERGENCY OVERVIEW ***:** Highly flammable liquid and vapor. May cause harm to breast-fed children. May damage fertility or the unborn child. Suspect cancer hazard.

GHS Classification

Acute Tox. 3 Dermal, Acute Tox. 2, Eye Irrit, 2, Inhalation, Carc. 2, Flam. Liq. 2, Lact. Effect, Repr. 1A, Skin Corr. 1, STOT SE 1

Symbol(s) of Product



Signal Word

Danger

Possible Hazards

GHS HAZARD STATEMENTS

Flammable Liquid, category 2	H225	Highly flammable liquid and vapor.
Acute Toxicity, Oral, category 4	H302	Harmful if swallowed.
Acute Toxicity, Dermal, category 3	H311	Toxic in contact with skin.
Acute Toxicity, Inhalation, category 3	H331	Toxic if inhaled.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
Reproductive Toxicity, category 1A	H360	May damage fertility or the unborn child.
Effects on or via lactation	H362	May cause harm to breast-fed children.
STOT, single exposure, category 1	H370	Causes damage to organs.

GHS PRECAUTIONARY STATEMENTS

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P240	Ground/bond container and receiving equipment.

P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P263	Avoid contact during pregnancy/while nursing.
P264	Wash thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor/physician
P310	Immediately call a POISON CENTER/doctor
P321	Specific treatment (see first aid section on this label).
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use appropriate method to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3. Composition/Information on Ingredients

Chemical Name	CAS-No.	% VOL	GHS Symbols	GHS Statements
Methanol	67-56-1	5-15	Listed Section-2	Listed Section-2
2-Propanone	67-64-1	45-70	Listed Section-2	Listed Section-2
Trade Secret - Proprietary Amine/Branched Aliphatic Carboxylic Acids	Mixture	1-30	Listed Section-2	Listed Section-2
Nitromethane	75-52-5	2.5-10	Listed Section-2	Listed Section-2
2-Ethylhexyl Nitrate	27247-96-7	2.5-10	Listed Section-2	Listed Section-2
Xylene	1330-20-7	0.1-1.0	Listed Section-2	Listed Section-2
Ethylbenzene	100-41-4	0.1-15	Listed Section-2	Listed Section-2
Trade Secret - Ultra High Purity Solution	540-84-1	05-20	Listed Section-2	Listed Section-2
Trade Secret - Low Temp. Flow Agents	Mixture	01-05	Listed Section-2	Listed Section-2
Trade Secret - Proprietary Blend Lubricity Increaser	Mixture	01-15	Listed Section-2	Listed Section-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. First-Aid Measures



FIRST AID - EYE CONTACT: Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly. Remove contact lenses if worn. Retract eyelids often.

FIRST AID - SKIN CONTACT: If sticky, use waterless cleaner first. Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately and clean shoes before reuse.

FIRST AID - INHALATION: Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention.

FIRST AID - INGESTION: Lesser / small amounts which accidentally enter mouth should be rinsed out until taste of it is gone. To prevent aspiration, keep head below knees. Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel.

SECTION 5. Fire-Fighting Measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: Highly flammable liquid and vapor. Vapors/dust may cause flash fire or explosion. Vapors can travel to a source of ignition and flash back. When heated above 110C/212F may undergo a self-accelerating, exothermic reaction which causes a rapid rise in temperature and pressure. Rupture of storage vessels and fire should be anticipated in case of such temperature. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning. Closed container may explode under extreme heat.

SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Evacuate all unnecessary personnel. Shut down motors, pumps, electrical service and eliminate all sources of ignition. Water may be ineffective. Do not use water jet (frothing possible). Water spray to cool containers or protect personnel. Use with caution. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

EXTINGUISHING MEDIA: Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam, Water Fog

SECTION 6. Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.) Eliminate all ignition sources. Evacuate unnecessary personnel. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. Collect spilled materials for disposal. Use only noncombustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

SECTION 7. Handling and Storage



HANDLING: Use only in a well-ventilated area. Avoid breathing vapor, fumes, or mist. Avoid contact with eyes, skin, and clothing. Material accumulates static charge (ignition source). Take precautionary measures against static discharge. When transferring, follow proper grounding procedures. Use spark-resistant tools. Do not load into compartments adjacent to heated cargo. Use explosion proof equipment. Always open containers slowly to allow any excess pressure to vent. Follow all MSDS/label precautions even after containers are emptied because they may retain product residues.

STORAGE: Keep away from heat, sparks, and flame. Containers can build up pressure if exposed to heat (fire). Store containers in a cool, well-ventilated place. Keep container closed when not in use. Protect from direct sunlight. Material is a static accumulator which has the potential of forming ignitable vapor-air mixtures in storage tanks. Blanket storage with inert gas.

SECTION 8. Exposure Controls/Personal Protection

Ingredients with Occupational Exposure Limits

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>
Methanol	200 ppm	250 ppm	200 ppm	N.D.
2-Propanone	500 ppm	750 ppm	1000 ppm	N.D.
Proprietary Amine/Branched Aliphatic Carboxylic Acids	N.D.	N.D.	N.D.	N.D.
Nitromethane	N.D.	N.D.	N.D.	N.D.
2-Ethylhexyl Nitrate	N.D.	N.D.	N.D.	N.D.
Xylene	100 ppm	150 ppm	100 ppm	N.D.
Ethylbenzene	100ppm	125ppm	100ppm	N.D.
2,2,4 - Trimethylpentane	ND	ND	ND	ND
Proprietary T-S Mixture Naphthalene	10ppm	10ppm	10ppm	ND

Personal Protection



RESPIRATORY PROTECTION: Wear a MSHA/NIOSH approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.



SKIN PROTECTION: Wear impervious gloves to prevent contact with the skin. Wear long sleeves when contact is likely to occur. Wear protective gear as needed - apron, suit, boots.



EYE PROTECTION: Use chemical splash goggles and face



shield (ANSI Z87.1 or approved equivalent).

OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.



HYGIENIC PRACTICES: Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

SECTION 9. Physical and Chemical Properties

Appearance:	Liquid	Physical State:	Liquid
Odor:	Typical	Odor Threshold:	N.D.
Density, g/cm³:	0.837	pH:	8.40
Freeze Point, °F:	N.D.	Viscosity:	N.D.
Solubility in Water:	Partial	Explosive Limits, vol%:	N.D.
Boiling Range, °F:	133 - 288	Flash Point, °F:	0
Evaporation Rate:	Not determined	Auto-ignition Temp., °F:	N.D.
Vapor Density:	N.D.	Vapor Pressure:	N.D.

(See "Other information" Section for abbreviation legend)

SECTION 10. Stability and Reactivity

STABILITY: No Information

CONDITIONS TO AVOID: Avoid impact, friction, heat, sparks, flame, and source of ignition. Avoid static discharge.

INCOMPATIBILITY: Avoid contact with hydrogen peroxide, chromic anhydride, nitric acid, mixed nitric/sulfuric acid, nitrosyl perchlorate, permonosulfuric acids, potassium tert-butoxide, sodium hypobromite, chlorinated melamine. Prevent contact with halogens. Prevent contact with strong oxidizing agents. Keep away from strong bases. Avoid contact with strong reducing agents. Avoid contact with amines. Keep away from acids. Keep separate from alkalis. Avoid the use of copper alloys in contact with this material.

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic gases/fumes are given off during burning or thermal decomposition. During combustion carbon monoxide may be formed. During combustion carbon dioxide may be formed. During combustion asphyxiants may be formed. Decomposition releases nitrogen oxides. Combustion can lead to the formation of formaldehyde. Combustion can lead to formation of formic acid.

HAZARDOUS POLYMERIZATION: No Information

SECTION 11. Toxicological Information



Information on Toxicological Effects

Primary Route(s) of Entry: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

EFFECTS OF OVEREXPOSURE - INHALATION: Toxic by inhalation. May be very irritating or corrosive to respiratory system. Breathing in the material may irritate the mucous membranes of the nose, throat bronchi and lungs. May cause dizziness and

drowsiness. Can cause headache, nausea, weakness, lightheadedness, and stupor (CNS depression). Serious effects may be delayed following exposure. Danger of severe damage to health by prolonged exposure through inhalation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Causes skin irritation. Skin absorption may add significantly to the overall toxic effect. May cause redness. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Personnel with pre-existing skin disorders should avoid contact with this product.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes eye irritation. Symptoms may include stinging, tearing, redness and swelling.

EFFECTS OF OVEREXPOSURE - INGESTION: Toxic if swallowed. May be fatal or cause blindness if swallowed. Irritating to mouth, throat, and stomach. Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2-4 hours or longer. Contains Methanol which may cause nausea, abdominal pain, vomiting, headache, dizziness, shortness of breath, weakness, fatigue, leg cramps, restlessness, confusion, drunken behavior, visual disturbances, drowsiness, coma, and death.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Suspect cancer hazard. The International Agency for Research on Cancer has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Lesser amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema. Very high exposure (confined spaces/abuse) to light hydrocarbons may result in abnormal heart rhythm. May cause target organ damage. May cause damage to unborn child. May cause harm to breast-fed children. Exposure may damage liver and kidneys. Material is slowly eliminated from the body; therefore, it can have cumulative toxicity effects with repeated exposures. Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, central nervous system, kidney, liver, skin, and/or eyes. May cause cardiovascular disorder and damage.

Carcinogenicity

CAS-No.	Name	IARC	NTP
67-56-1	Methanol	3- Not classifiable as to its carcinogenicity to humans.	Not Listed
67-64-1	2-Propanone	3- Not classifiable as to its carcinogenicity to humans.	Not Listed
Mixture	Proprietary Amine/Branched Aliphatic Carboxylic Acids	N.D.	N.D.
75-52-5	Nitromethane	2B- Possibly carcinogenic to humans.	Suspected human Carcinogen2
27247-96-7	2-Ethylhexyl Nitrate	3- Not classifiable as to its carcinogenicity to humans.	Not Listed
1330-20-7	Xylene	3- Not classifiable as to its carcinogenicity to humans.	Not Listed
100-41-4	Ethylbenzene	2B- Possibly carcinogenic to humans.	Not Listed
540-84-1	2.2.4 Trimethylpentane	3 - Not classifiable as to its carcinogenicity to Humans	Not Listed
Mixture	Proprietary - Naphthalene Trade-Secret	2B - Possibly carcinogenic to humans No Ingredient of this product at levels >= 0.1% is identified as possible, probable, or known Carcinogen by IARC	Not Listed

Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Name	Oral LD50, mg/kg	Dermal LD50, mg/kg	Vapor LC50, mg/L
67-56-1	Methanol	300	>200	>2
67-64-1	2-propanone	5800	>2000	50.1
Mixture	Proprietary amine/Branched Aliphatic Carboxylic Acids	>2000	>2000	>20
75-52-5	Nitromethane	940	N.D.	N.D.
27247-96-7	2-Ethylhexyl Nitrate	500	1100	>10
1330-20-7	Xylene	>3500	>4200	>20
100-41-4	Ethylbenzene	3500	15433	>20
580-84-1	2.2.4-Trimethylpentane	>5000	>2000	>33.52
Mixture	Proprietary Naphthalene Trade Secret	490	>2000	>340 mg/m ³

SECTION 12. Ecological Information

ECOLOGICAL INFORMATION: No Information

SECTION 13. Disposal Considerations

For more guidance and information contact our Waste Services Division at (262) 658-4000.

Always dispose of any waste in accordance with all local, state, and federal regulations.

DISPOSAL METHOD: Dispose of waste in accordance with all local, state, and federal regulations.**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.) Eliminate all ignition sources. Evacuate unnecessary personnel. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. Collect spilled materials for disposal. Use only noncombustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.**SECTION 14. Transport Information**

DOT Proper Shipping Name	Flammable Liquids, (Methanol, Acetone, 2-Ethylhexyl Nitrate)	Packing Group:	II
DOT Hazard Class:	3	Hazard Sub-Class	No Information
DOT UN/NA Number:	UN1993	Resp. Guide Page:	128

SECTION 15. Regulatory Information**U.S. Federal Regulations:****CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.
Methanol	67-56-1
Xylene	1330-20-7
Ethylbenzene	100-41-4
Naphthalene	91-20-3

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA components exist in this product.

U.S. State Regulations:**NEW JERSEY RIGHT-TO-KNOW:**

The following materials are non-hazardous but are among the top five components in this product.

No NJ Right-To-Know components exist in this product.

PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product at greater than 3%.

No PA Right-To-Know components exist in this product.

CALIFORNIA PROPOSITION 65 CARCINOGENS

Warning: The following ingredients present in the product are known to the state of California to cause Cancer.

<u>Chemical Name</u>	<u>CAS-No.</u>
Ethylbenzene	100-41-4
Naphthalene	91-20-3
Cumene	98-82-8
Toluene	108-88-3

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

<u>Chemical Name</u>	<u>CAS-No.</u>
Methanol	67-56-1
Toluene	108-88-3

International Regulations: As follows -**CANADIAN WHMIS:**

This SDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

WHMIS Class: No Information

SECTION 16. Other Information

Revision Date: 10/03/2022 Supersedes Date: 7/10/2018

Datasheet produced by: EH&S - Regulatory Department

HMIS Ratings:

Health:	3	Flammability:	3	Reactivity:	2	Personal Protection:	X
---------	---	---------------	---	-------------	---	----------------------	---

Volatile Organic Compounds, gr/ltr: 119

DISCLAIMER: THE VOLATILE ORGANIC COMPOUND (VOC) CONTENT REPORTED HEREIN, IF ANY, IS BASED ON A MATERIAL VOC CALCULATION. NOTE THAT SEVERAL METHODS ARE USED FOR CALCULATING VOC CONTENT AND THAT STANDARDS/ REQUIREMENTS REGARDING VOC CONTENT VARY BY LOCATION/JURISDICTION. ACCORDINGLY, EMCO MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, REGARDING THIS MATERIAL'S COMPLIANCE WITH VOC STANDARDS/ REQUIREMENTS APPLICABLE IN LOCATIONS/JURISDICTIONS WHERE THIS MATERIAL MAY BE SOLD OR USED.

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H227	Combustible liquid
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H362	May cause harm to breast-fed children.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS02	
GHS05	
GHS06	
GHS07	
GHS08	

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

The information on this SDS was obtained from sources which we believe to be reliable. However, the information provided is without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information and recommendations are offered for the user's consideration and examination and should be used to make an independent determination of the methods to safeguard workers and the environment. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For these reasons we do not assume responsibility and expressly disclaim any liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS may not be applicable. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.