

Safety Data Sheet

1. Identification	
Product Information.	CETSBK
Product Name:	DIESEL GUARD CETANE INPROVER
Recommended Use.	Fuel additive
Uses advised against.	Professional Use Only
Supplier.	ValvTect Petroleum Products A Division of Modern Recreational Technologies, Inc. 2220 Highway 70 SE., Suite 100 Hickory, NC 28602 800-728-8258
Emergency telephone number.	Chemtrec: +1-800-424-9300 USA Chemtrec: +1 703-527-3887 ex-USA 24 hrs./day, 7 days/week

2. Hazards Identification

GHS Classification in accordance with 29 CFR 1910.1200 Flammable Liquid, category 4 Acute Toxicity, Inhalation, category 4

GHS Pictograms



Signal Word Warning

Unknown Acute Toxicity < 0.1% of the mixture consists of ingredient(s) of unknown acute toxicity

HAZARD STATEMENTS

Combustible liquid. Harmful if inhaled.

Precautionary Statements - Prevention.

Keep away from heat, sparks, open flames, hot surfaces. No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection, face protection

Precautionary Statements - Response.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

In case of fire: Use CO_2 dry chemical or foam to extinguish.

Precautionary Statements - Storage.

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal.

Dispose of contents in accordance with local, regional, national, international regulations.

3. Composition/Information on Ingredients			
Chemical Name	CAS-No.	<u>Wt. %</u>	
2-Ethylhexyl nitrate	27247-96-7	75-100	

The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid Measures

Description of first-aid measures.

General advice.

Move victim to a safe isolated area. When symptoms persist or in all cases of doubt seek medical advice. Call a poison control center or doctor for treatment advice.

Inhalation.

Move to fresh air. Apply artificial respiration if victim is not breathing. Call a poison control center or doctor for treatment advice.

Skin contact.

Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. Call a poison control center or doctor for treatment advice.

Eye contact.

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a poison control center or doctor for treatment advice.

Ingestion.

Do not induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. If swallowed, call a poison control center or doctor immediately. Gently wipe or rinse the inside of the mouth with water. If a person vomits when lying on his back, place him in the recovery position.

Symptoms.

See Section 2 and Section 11, Toxicological effects for description of potential symptoms.

Notes to physician.

Treat symptomatically.

5. Fire-fighting Measures

Extinguishing media.

Suitable extinguishing media.

Use:. Dry powder. Alcohol-resistant foam. Carbon dioxide (CO₂). Water may be used to cool and prevent the rupture of containers that are exposed to the heat from a fire.

Extinguishing media which shall not be used for safety reasons.

Water may be unsuitable for extinguishing fires.

Special hazards arising from the substance or mixture.

Vapors may travel to areas away from work site before igniting/flashing back to vapor source. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Most vapors are heavier than air. Vapors may spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back. Air/vapor mixtures may explode when ignited. Containers may explode when heated.

Advice for firefighters.

Cool containers with flooding quantities of water until well after fire is out.

Evacuate personnel to safe areas.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures.

Personal precautions.

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. All equipment used when handling the product must be grounded. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear protective gloves/clothing and eye/face protection. Stop all work that requires a naked flame, stop all vehicles, stop all machines and equipment that may cause sparks or flames. Do not breathe vapors or spray mist. Avoid exceeding of the given occupational exposure limits (see section 8). Thoroughly decontaminate all protective equipment after use. Personal protection needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the training and the expertise of employees in the area responding to the spill.

Advice for emergency responders.

Refer to protective measures listed in sections 7 and 8. Use personal protection recommended in Section 8.

Environmental precautions.

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Dike to collect large liquid spills. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological information.

Methods and materials for containment and cleaning up.

Methods for Containment.

Dike to collect large liquid spills. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Ground and bond containers when transferring material. Take precautionary measures against static discharges. Use personal protective equipment. Remove all sources of ignition.

Methods for cleaning up.

Prevent further leakage or spillage if safe to do so. Keep away from open flames, hot surfaces and sources of ignition. Keep in suitable and closed containers for disposal. All equipment used when handling the product must be grounded. Keep combustibles (wood, paper, oil, etc) away from spilled material. Ventilate the area. Use personal protective equipment as required. Shut off ignition sources; including electrical equipment and flames. Clean contaminated objects and areas thoroughly while observing environmental regulations. Never return spills in original containers for re-use.

Reference to other sections.

See section 8 for more information.

7. Handling and Storage

Conditions for safe storage, including any incompatibilities.

Advice on safe handling.

Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Wash hands before breaks and immediately after handling the product. All equipment used when handling the product must be grounded. Take precautionary measures against static discharges. Do not breathe vapors or spray mist. Use according to package label instructions. Ground and bond containers when transferring material.

Hygiene measures.

Handle in accordance with good industrial hygiene and safety practice for diagnostics. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Storage Conditions.

Keep container closed when not in use. Keep in properly labeled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in accordance with local regulations. Keep from freezing. Keep away from food, drink and animal feedingstuffs. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

8. Exposure Controls/Personal Protection

Ingredients with Occupational Exposure Limits **Chemical Name** ACGIH TLV-TWA

ACGIH-TLV STEL

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OSHA PEL-TWA
    OSHA PEL-CEILING
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Contains no substances with occupational exposure limit values.

TLV = Threshold Limit Value TWA = Time Weighted Average PEL = Permissible Exposure Limit STEL = Short-Term Exposure Limit N.E. = Not Established

Engineering Measures.

Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits.

Personal protective equipment.

Eye/Face Protection.

If splashes are likely to occur, wear:. Face-shield. Safety glasses with side-shields. Wear chemical-resistant glasses and/or goggles and a face shield when eye and face contact is possible due to handling and processing of material. Tightly fitting safety goggles.

Skin and body protection.

Use:. Long sleeved clothing. Protective shoes or boots. Solvent-resistant gloves. Solvent-resistant apron and boots. Wear impervious gloves and/or clothing if needed to prevent contact with the material. Gloves must be inspected prior to use. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove and wash contaminated clothing before re-use.

Respiratory protection.

In case of inadequate ventilation wear respiratory protection. NIOSH/MSHA approved respiratory protection should be worn if exposure is anticipated. If exposure limits are exceeded or irritation is experienced, respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

Physical and chemical properties.

Information on basic physical and chemical properties.

Physical state	Liquid
Appearance	No Information
Color	various
Odor	Hydrocarbon-like
Odor Threshold	No Information
рН	No Information
Melting/freezing point., °C (°F)	No Information
Flash Point., °C (°F)	76 (168.80)
Boiling point/boiling range., °C (°F)	100 (212)
Evaporation rate	No Information Available
Explosive properties.	No Information
Vapor pressure.	No Information
Vapor density.	No Information
Specific Gravity. (g/cm ³)	0.969
Water solubility.	No Information
Partition coefficient.	No Information
Autoignition temperature., °C	No Information
Decomposition Temperature °C.	No Information
Viscosity, kinematic.	< 20 mm2/s
Other information.	
Volatile organic compounds (VOC) content.	No Information
Density, Ib/gal	8.070

10. Stability and Reactivity

Reactivity.

Stable under normal conditions.

Chemical stability.

Stable under recommended storage conditions. Unstable if heated > 100 deg C / 212 deg F.

Possibility of hazardous reactions.

None known based on information supplied.

Conditions to Avoid.

Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Keep away from heat and sources of ignition. Do not freeze.

Incompatible Materials.

None known based on information supplied.

Hazardous Decomposition Products.

Thermal decomposition can lead to release of irritating gases and vapours. Possible formation of carbon oxides, nitrogen oxides, and hazardous organic compounds.

11. Toxicological Information

Information on toxicological effects. Acute toxicity. **Product Information** No Information The following values are calculated based on chapter 3.1 of the GHS document. ATEmix (dermal) 4,800.0 mg/kg ATEmix (inhalation - vapor) 14.00 mg/l Component Information. LC50 Inhalation CAS-No. **Chemical Name** LD50 Oral LD50 Dermal 27247-96-7 2-Ethylhexyl nitrate >9600 mg/kg Rat >4800 mg/kg >14 mg/L Rat (Vapor) Rabbit N.I. = No Information Skin corrosion/irritation. No Information Eye damage/irritation. No Information Respiratory or skin sensitization. No Information Ingestion. May be harmful if swallowed. Germ cell mutagenicity. No Information Carcinogenicity. No Information **Chemical Name** IARC NTP **OSHA** CAS-No. 27247-96-7 2-Ethylhexyl nitrate IARC Group 2A Reproductive toxicity. No Information Specific target organ systemic toxicity (single exposure). No Information Specific target organ systemic toxicity (repeated exposure). May cause damage to organs through prolonged or repeated exposure. Aspiration hazard. No Information

Primary Route(s) of Entry

No Information

12. Ecological Information

Toxicity.

0.00% of the mixture consists of ingredient(s) of unknown aquatic toxicity

Ecotoxicity effects.

Chemical Name	Toxicity to algae		Toxicity to daphnia and other aquatic invertebrates
2-Ethylhexyl nitrate 27247-96-7	-	LC50 96 h Danio rerio 2 mg/L	-

Persistence and degradability.

No data are available on the product itself.

Bioaccumulative potential.

Discharge into the environment must be avoided.

<u>CAS-No.</u> 27247-96-7	Chemical Name 2-Ethylhexyl nitrate	<u>log POW</u> 5.24
<u>Mobility in soil.</u>		
No information		

Other adverse effects.

No information

13. Disposal Considerations

Waste Disposal Guidance.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

<u>DOT</u>

Shipping Name: Hazard Class: UN/NA Number: Packing Group: Additional Information:	Combustible liquid, n.o.s. (2-ethylhexyl nitrate) Comb liq. NA1993 III EXCEPTION: As per 49 CFR 173.120(b)(2), a flammable liquid with a flashpoint at or above 38°C or 100°F may be reclassed as a combustible liquid for transportation within the U.S. by motor vehicle or rail only.A Combustible Liquid in a non-bulk packaging (less than 450L or 119 gallons) Is not subject to any of the HazMat regulations unless it is a hazardous substance, hazardous waste, or a marine pollutant [49 CFR 173.150(f)(1)(2)].
<u>IMDG</u> Proper Shipping Name: Hazard Class: UN Number: Packing Group:	Environmentally hazardous substance, liquid, nos (2-ethylhexyl nitrate), Marine pollutant 9 3082 III
<u>IATA</u> Proper Shipping Name: Hazard Class: Packing Group:	UN3082, Environmentally hazardous substance, liquid, nos (2-ethylhexyl nitrate), Marine pollutant 9 III

15. Regulatory Information

International Inventories:

TSCA	Complies
DSL	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECI	Complies
PICCS	Complies
AIIC	Complies
NZIoC	Complies
TCSI	
TSCA	United States Toxic Substances Control Act Section 8(b) Inventory.
DSL	Canadian Domestic Substances List.
DSL/NDSL	Canadian Domestic Substances List/Canadian Non-Domestic Substances List
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances.
ENCS	Japan Existing and New Chemical Substances.
IECSC	China Inventory of Existing Chemical Substances.
KECL	Korean Existing and Evaluated Chemical Substances.
PICCS	Philippines Inventory of Chemicals and Chemical Substances.
AIIC	Australian Inventory of Chemical Substances.
NZIoC	New Zealand Inventory of Chemicals.
TCSI	Taiwan Chemical Substance Inventory

U.S. Federal Regulations:

SARA SECTION 313:

This product does not contain any chemicals that are subject to the reporting requirements of SARA 313. **TOXIC SUBSTANCES CONTROL ACT 12(b):**

This product does not contain any chemicals that are subject to the reporting requirements of TSCA 12(b).

ADDITIONAL INFORMATION

Additional Information - Sxn 15: No Information

CALIFORNIA PROPOSITION 65 CARCINOGENS

No Proposition 65 Carcinogens exist in this product. CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

No Proposition 65 Reproductive Toxins exist in this product.

Revision D	evision Date: 10/10/2023			Supersedes Date:		New SDS	
Reason for	eason for revision: No Information						
Datasheet	produced by	: Regulator	y Departm	nent			
HMIS Rati	ngs:						
Health:	2	Flammability:	2	Physical Hazard:	1	Personal Protection:	Х
- Touluri.							
NFPA Rat	tings:						

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

The information provided on this SDS 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.