ENGINE FOGGING OIL

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
CAS No.	Mixture
Trade Name	ENGINE FOGGING OIL
Product Code	16-FO-DS

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	ENGINE FOGGING OIL
Uses Advised Against	None
Company Identification	Blaster LLC 8500 Sweet Valley Drive 44125 Valley View, Ohio - USA
Telephone	(216) 901-5800
Fax	(216) 901-5801
	www.blasterproducts.com

Emergency telephone number

Emergency Phone No.	**Chemtrec (800) 424-9300**

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) — Flam. Aerosol 2; Liquefied gas; Skin Irrit. 2; STOT SE 3; Asp. Tox. 1

Label elements

Hazard Symbol

Signal word(s): **DANGER**

Hazard Statement(s):

Flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes skin irritation.

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

Precautionary Statement(s):

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source.

Protect from sunlight and do not expose to temperatures exceeding 50 ºC/122 ºF.

Do not pierce or burn, even after use.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

Use only outdoors or in a well-ventilated area.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash hands and exposed skin after use.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse.

IF SWALLOWED: Do not give anything by mouth to an unconscious person. Seek medical treatment. Do NOT induce vomiting.

IF INHALED: Move person to fresh air. If breathing is labored, administer oxygen. If symptoms develop, obtain medical attention.

Other hazards: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
Solvent Naphtha (Petroleum) Medium Aliphatic	50-55	64742-88-7	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Acute 2; H401 Aquatic Chronic 2; H411
Kerosine (Petroleum), hydrodesulfurized**	15-20	64742-81-0	Flam. Liq. 3; H226 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Acute 2; H401 Aquatic Chronic 2; H411
Propane	7-14	74-98-6	Flam. Gas 1; H220 Liquefied gas; H280
n-Butane	5-10	106-97-8	Flam. Gas 1; H220 Liquefied gas; H280
2-Butoxyethanol	0.5-1.5	111-76-2	Flam. Liq. 4; H227 Acute Tox. 4; H302, 312, 332 Skin Irrit. 2; H315 Eye Irrit. 2A; H319
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	0.5-1	84605-29-8	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 2; H401 Aquatic Chronic 2; H411
Vanillin	<1	121-33-5	Eye Irrit. 2; H319
Dipropylene glycol	<1	25265-71-8	Not classified as dangerous for supply/use.

Additional Information - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below.: **None**

**Contains: Xylene (CAS No. 1330-20-7) at ≤ 0.1% in the final formulation.

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Inhalation	Move person to fresh air. If breathing is labored, administer oxygen. If symptoms develop, obtain medical attention.
Skin Contact	Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Ingestion	Do not give anything by mouth to an unconscious person. Seek medical treatment. Do NOT induce vomiting.
Most important symptoms and effects, both acute and delayed	May be fatal if swallowed and enters airways.
Indication of any immediate medical attention and special treatment needed	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media	Extinguish with carbon dioxide, dry chemical, foam or water spray.
-Unsuitable Extinguishing Media	Do not use water jet.
Special hazards arising from the substance or mixture	Pressurised container: May burst if heated.
Advice for fire-fighters	A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Eliminate all ignition sources if safe to do so. Avoid contact with skin. Avoid breathing spray. Wear protective gloves/protective clothing/eye protection/face protection.
Environmental precautions	Prevent liquid entering sewers, basements and work pits. Avoid release to the environment.
Methods and material for containment and cleaning up	Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.
Reference to other sections	None
Additional Information	None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid breathing mist/vapours/spray.

Conditions for safe storage, including any incompatibilities

-Storage temperature	Keep in a cool, well ventilated place. Store at temperatures not exceeding 50 °C / 122 °F.
-Incompatible materials	This product should be stored away from sources of strong heat or oxidizing chemicals.
Specific end use(s)	Rust Preventative

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA) PEL (OSHA)	(8hr TWA) TLV (ACGIH)	(STEL) PEL (OSHA)	(STEL) TLV (ACGIH)	Note:
2-Butyoxyethanol	111-76-2	50 ppm	20 ppm	------	------	------
Aliphatic hydrocarbons, C9-C15	-----	------	1200 mg/m3	------	------	------
Kerosine	64742-81-0	------	200 mg/m3	------	------	------
Xylene	1330-20-7	100 ppm	100 ppm	------	150 ppm	------
Propane	74-98-6	1000 ppm	Aspyx.#	-----	-----	#

Assure minimum oxygen content of work atmosphere..

Recommended monitoring method NIOSH 1550 (Naphthas); NIOSH 1501 (Hydrocarbons, Aromatic); NIOSH 1403 (2-Butyoxyethanol)

Exposure controls

Appropriate engineering controls Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.

Personal protection equipment

Eye/face protection — Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other) — Wear suitable gloves if prolonged skin contact is likely. Nitrile rubber. Check with protective equipment manufacturer's data.

Respiratory protection — Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.

Thermal hazards — Not normally required. Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Aerosol spray
Color.	Brown
Odor	Slight solvent
Odor Threshold (ppm)	Not available
pH (Value)	Not available
Melting Point (°C) / Freezing Point (°C)	Not available
Boiling point/boiling range (°C):	-42 (-43.7°F) [Propane]
Flash Point (°C)	-104 (-155 °F) [Propane]
Evaporation Rate	Not available
Flammability (solid, gas)	Extremely flammable
Explosive Limit Ranges	2.1% - 9.5% v/v (Propane)
Vapor pressure (Pascal)	ca. 95 x 10^4 (Propane)
Vapor Density (Air=1)	ca. 1.56 @ 0ºC (Propane)
Density (g/ml)	Not available
Solubility (Water)	Not available
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	450 (Propane)

Decomposition Temperature (°C)	Not available
Kinematic Viscosity	5 cSt @ 40°C (104°F)
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Other information	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	None anticipated.
Conditions to avoid	Avoid contact with heat and ignition sources.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition product(s)	Carbon monoxide, Carbon dioxide, Acrid smoke

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation**,** Skin Contact**,** Eye Contact

Information on toxicological effects

Solvent naphtha (petroleum), medium aliph. (CAS No. 64742-88-7) & Kerosine (Petroleum), hydrodesulfurized (CAS No. 64742-81-0) - By analogy with similar materials:

Acute toxicity	Oral: LD50 >5000 mg/kg-bw Dermal: LD50 >2000 mg/kg-bw Inhalation: LC0 > 5.6 mg/l (Vapor), 4-hr. rat - May cause drowsiness or dizziness.
Irritation/Corrosivity	Causes skin irritation.
Sensitization	It is not a skin sensitizer.
Repeated dose toxicity	Oral: LOAEL 500 mg/kg Dermal: NOEAL > 2000 ml/kg bw Inhalation: NOAEL ≥1000 mg/m3
Carcinogenicity	It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Mutagenicity	Not to be expected
Reproductive toxicity	Not to be expected

Propane (CAS# 74-98-6):

Acute toxicity	Inhalation: LC50 = 1237 mg/L (2-hr, mouse, gas)
Irritation/Corrosivity	No evidence of irritant effects from normal handling and use.
Sensitisation	It is not a skin sensitiser.
Repeated dose toxicity	NOAEC: ≥19678 mg/m3 (28-day, rat, Systemic effects) LOAEC: 21641 mg/m3 (28-day, rat, effects: Body weight)
Carcinogenicity	It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA
No.	No.	No.	No.

Mutagenicity	There is no evidence of mutagenic potential.
Reproductive toxicity	None anticipated

SECTION 12: ECOLOGICAL INFORMATION

Solvent naphtha (petroleum), medium aliph. (CAS No. 64742-88-7) & Kerosine (Petroleum), hydrodesulfurized (CAS No. 64742-81-0) - By analogy with similar materials:

Ecotoxicity

Short term	LC50 (96 hour): 2.5 mg/L (fish) EC50 (48 hour): 1.4 mg/L (crustacea) EC50 (72 hour): 1.3 mg/L (algae)
Long Term	NOEC (28 days): 0.098 mg/L (fish) LOEC (21 days): 1.2 mg/L (crustacea) LOEL (72 hour): 1 mg/L (algae)
Persistence and degradability	Biodegradable
Bioaccumulative potential	The product has no potential for bioaccumulation.
Mobility in soil	Not available.
Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods — Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

SECTION 14: TRANSPORT INFORMATION

	Land transport U.S. DOT	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	1950	1950	1950
Proper Shipping Name	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
Transport hazard class(es)	2.1	2.1	2.1
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazards	None assigned	None assigned	None assigned
Special precautions for user	None assigned	None assigned	None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status**:** All components listed and active, or exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	------	-----	------

SARA 311/312 - Hazard Categories: Refer to Section 2-HAZARD IDENTIFICATION

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	------	-------

SARA 302 - Extremely Hazardous Substances (40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
Cumene	98-82-8	Cancer
Ethylbenzene	100-41-4	Cancer
Naphthalene	91-20-3	Cancer
Toluene	108-88-3	Developmental, Reproductive
Benzene	71-43-2	Cancer, Reproductive

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.
Date of preparation: May 22,2024

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

- H220: Extremely flammable gas.
- H226: Flammable liquid and vapour.
- H227: Combustible liquid.
- H280: Contains gas under pressure; may explode if heated.
- H302: Harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H312: Harmful in contact with skin.
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.
- H336: May cause drowsiness or dizziness.
- H401: Toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.

Training advice: None.

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