

SAFETY DATA SHEET

1. Identification

Product identifier	Engine Stor® Fogging Oil	
Other means of identification		
Product code	06068	
Recommended use	Fogging fluid	
Recommended restrictions	None known.	
2. Hazard(s) identificatio	n	
Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Liquefied gas
Health hazards	Not classified.	
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Signal word Hazard statement	Danger	ains das under pressure: may explode if beated
Hazard statement	Extremely flammable aerosol. Con	tains gas under pressure; may explode if heated.
Precautionary statement		
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Do not apply while equipment is energized. Pressurized container: Do not pierce or burn, even after use. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area.	
Response	Wash hands after handling.	
Storage	Store in a well-ventilated place. Pro 50°C/122°F. Exposure to high temp	otect from sunlight. Do not expose to temperatures exceeding perature may cause can to burst.
Disposal	Dispose of contents/container in ac	cordance with local/regional/national regulations.
Hazard(s) not otherwise classified (HNOC)	None known.	

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), hydrotreated heavy naphthenic		64742-52-5	30 - 40
Distillates (petroleum), solvent-refined heavy paraffinic		64741-88-4	30 - 40
Liquefied Petroleum Gas		68476-86-8	10 - 20
n-Butyl stearate		123-95-5	5 - 10
Sorbitan monooleate		68910-94-1	3 - 5
Sorbitan oleate		1338-43-8	3 - 5
Fatty Acids, C18-unsatd., Dimers		61788-89-4	1 - 3
Petrolatum		8009-03-8	1 - 3
Sodium petroleum sulfonate		68608-26-4	1 - 3
Vanilla fragrances		Proprietary	< 0.3

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may rupture when exposed to heat or flame. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.
General fire hazards	Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many vapors are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. For product usage instructions, please see the product label.
Conditions for safe storage,	Level 3 Aerosol.
including any incompatibilities	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

U.S OSHA Components	Туре	Value	Form
Fatty Acids, C18-unsatd., Dimers (CAS 61788-89-4)	TWA	5 mg/m3	Respirable
US. OSHA Table Z-1 Limits for Air C	Contaminants (29 CFR 1910.10	000)	
Components	Туре `	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	.
Distillates (petroleum), solvent-refined heavy paraffinic (CAS 64741-88-4)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	
Petrolatum (CAS 8009-03-8)	PEL	5 mg/m3	Mist.
ACGIH			
Components	Туре	Value	Form
Fatty Acids, C18-unsatd., Dimers (CAS 61788-89-4)	STEL	10 mg/m3	Respirable
	TWA	5 mg/m3	Respirable
US. ACGIH Threshold Limit Values		-	
Components	Туре	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), solvent-refined heavy paraffinic (CAS 64741-88-4)	TWA	5 mg/m3	Inhalable fraction.
n-Butyl stearate (CAS 123-95-5)	TWA	10 mg/m3	
Petrolatum (CAS 8009-03-8)	TWA	5 mg/m3	Inhalable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards Components

Components	Туре	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	Ceiling	1800 mg/m3	
	STEL	10 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (CAS 64741-88-4)	Ceiling	1800 mg/m3	
	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Petrolatum (CAS 8009-03-8)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
ological limit values	No biological exposure limits noted for	the ingredient(s).	
propriate engineering ntrols	Good general ventilation (typically 10 should be matched to conditions. If ap or other engineering controls to mainta exposure limits have not been establis	plicable, use process enclosu ain airborne levels below reco	res, local exhaust ventilation, mmended exposure limits. If
lividual protection measures,	such as personal protective equipme	ent	
Eye/face protection	Wear safety glasses with side shields	(or goggles).	
Skin protection			
Hand protection	Wear protective gloves such as: Nitrile	e. Neoprene.	
Other	Wear suitable protective clothing.		
Respiratory protection	If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.		
Thermal hazards	Wear appropriate thermal protective c	lothing, when necessary.	
neral hygiene nsiderations	When using do not smoke. Always ob after handling the material and before clothing and protective equipment to r	eating, drinking, and/or smoki	

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Aerosol.
Color	Amber.
Odor	Petroleum.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-5 °F (-20.6 °C) estimated
Initial boiling point and boiling range	212 °F (100 °C) estimated
Flash point	> 350 °F (> 176.7 °C) Tag Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	503.8 hPa estimated
Vapor density	> 1 (air = 1)
Relative density	0.86 estimated

Solubility (water)	Negligible.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	500 °F (260 °C) estimated
Decomposition temperature	Not available.
Viscosity (kinematic)	Not available.
Percent volatile	83.4 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Sulfur oxides. Hydrocarbons.

11. Toxicological information

Information on likely routes of exposure		
Inhalation	Prolonged inhalation may be harmful.	
Skin contact	Prolonged skin contact may cause temporary irritation.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Ingestion	Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.	
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.	

Information on toxicological effects

Acute toxicity	Not available.	
Product	Species	Test Results
Engine Stor® Fogging Oil		
Acute		
Dermal		
LD50	Rabbit	2418 mg/kg estimated
Inhalation		
LC50	Rat	13 mg/l, 4 hours estimated
Oral		
LD50	Rat	6001 mg/kg estimated
Skin corrosion/irritation Serious eye damage/eye	be based on additional component Prolonged skin contact may ca Direct contact with eyes may ca	use temporary irritation.
irritation	<u> </u>	
Respiratory sensitization	This product is not expected to cause respiratory sensitization.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Respiratory or skin sensitizatio	n	
Sensitization Vanilla fragrances		0, Skin
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
Carcinogenicity	This product is not considered	to be a carcinogen by IARC, ACGIN, NTF, OF OSHA.

Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not expected to be an aspiration hazard.
Further information	This product has no known adverse effect on human health.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.			
Product		Species	Test Results	
Engine Stor® Fogging Oil				
Aquatic				
Crustacea	EC50	Daphnia	2831.1023 mg/l, 48 hours estimated	
Acute				
Fish	LC50	Fish	2641.0591 ppm, 96 hours estimated	
Components		Species	Test Results	
Distillates (petroleum), hyd	rotreated heav	vy naphthenic (CAS 64742-52-5)		
Aquatic				
Acute				
Fish	LC50	Pimephales promelas	> 30000 mg/l, 96 hours	
Sorbitan oleate (CAS 1338	-43-8)			
Aquatic				
Acute				
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	> 1000 mg/l, 96 hours	
* Estimates for product may	v he hased on	additional component data not shown.		
Persistence and degradability		is available on the degradability of this pro	duct	
Bioaccumulative potential		available.		
•				
Partition coefficient n-oct Fatty Acids, C18-unsatd., D		1 - 2.5, logKow		
Mobility in soil		available.		
Other adverse effects		adverse environmental effects (e.g. ozone, endocrine disruption, global warming pote		
13. Disposal considerat	ions			
Disposal of waste from residues / unused products	Empty co	The dispensed liquid product is not a RCRA hazardous waste (See 40 CFR Part 261.20 - 261.33). Empty container can be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.		
Hazardous waste code		Not regulated.		
Contaminated packaging	Since err emptied.	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.		
14. Transport information	on			
DOT				
UN number	UN1950			
LIN proper chipping nem	Aorocole	flammable Limited Quantity		

UN1950
Aerosols, flammable, Limited Quantity
2.1
-
2.1
Not applicable.
Read safety instructions, SDS and emergency procedures before handling.
N82

	Packaging exceptions Packaging non bulk Packaging bulk	306 None None
IAT	Α	
	UN number	UN1950
	UN proper shipping name	Aerosols, flammable, Limited Quantity
	Transport hazard class(es)	
	Class	2.1
	Subsidiary risk	-
	Packing group	Not applicable.
	Environmental hazards	No.
	ERG Code	10L
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
	Other information	
	Passenger and cargo	Allowed.
	aircraft	
	Cargo aircraft only	Allowed.
IMD	G	
	UN number	UN1950
	UN proper shipping name	AEROSOLS, LIMITED QUANTITY
	Transport hazard class(es)	
	Class	2
	Subsidiary risk	-
	Packing group	Not applicable.
	Environmental hazards	
	Marine pollutant	No.
	EmS	F-D, S-U
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

15. Regulatory information

0 ,	
IS federal regulations	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export	Notification (40 CFR 707, Subpt. D)
Not regulated.	
US. OSHA Specifically Reg	ulated Substances (29 CFR 1910.1001-1050)
Not listed.	
SARA 304 Emergency relea	ase notification
Not regulated.	
US EPCRA (SARA Title III)	Section 313 - Toxic Chemical: Listed substance
Not listed.	
CERCLA Hazardous Subst	ance List (40 CFR 302.4)
Not listed.	
CERCLA Hazardous Subst	ances: Reportable quantity
Clean Air Act (CAA) Section	n 442 Hererdeue Air Dellutente (HADe) Liet
	n 112 Hazardous Air Pollutants (HAPs) List
Not regulated.	n 112(r) Accidental Release Prevention (40 CFR 68.130)
	1112(1) Accidental Release Prevention (40 CFR 66.150)
Not regulated.	
Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No

US state regulations

- US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.
- (a))

Liquefied Petroleum Gas (CAS 68476-86-8) Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5) Distillates (petroleum), solvent-refined heavy paraffinic (CAS 64741-88-4) Petrolatum (CAS 8009-03-8)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

US. New Jersey Worker and Community Right-to-Know Act

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

US. Massachusetts RTK - Substance List

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

None.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 51.100(s))	100 %
Consumer products (40 CFR 59, Subpt. C)	Not regulated
ite	

State C

consumer products	Not regulated
VOC content (CA)	10.6 %
VOC content (OTC)	10.6 %

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

professional, or CRC Industries.

Issue date	05-26-2015
Prepared by	Allison Cho
Version #	01
Further information	CRC # 537B
HMIS® ratings	Health: 1 Flammability: 3 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 1 Flammability: 3 Instability: 0
NFPA ratings	
Disclaimer	The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is

accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety