

# SAFETY DATA SHEET

## 1. Identification

Product identifier	FLUOROCARBON GEL 8	68VL-MS
Other means of identification		
Product Code	FLUOROCARBON GEL 86	8VL-MS
Recommended use	Lubricating Grease	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name	Nye Lubricants, Inc.	
Address	12 Howland Road	
	Fairhaven, MA 02719	
	United States	
Telephone	General Assistance	508-996-6721
Website	www.nyelubricants.com	
E-mail	sds@nyelubricants.com	
Contact person	Nye Lubricants EH&S	
Emergency phone number	3E Online	800-451-8346

## 2. Hazard(s) identification

() /		
Physical hazards	Not classified.	
Health hazards	Reproductive toxicity	Category 2
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
	V	
Signal word	Warning	
Hazard statement	Suspected of damaging fertility or th	e unborn child.
Precautionary statement		
Prevention	•	se. Do not handle until all safety precautions have been read oves/protective clothing/eye protection/face protection.
Response	If exposed or concerned: Get medic	al advice/attention.
Storage	Store locked up.	
Disposal	Dispose of contents/container in acc	cordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

## 3. Composition/information on ingredients

Chemical name	Common name and synonyms	CAS number	%
MOLYBDENUM DISULFIDE		Trade Secret	5 - < 10*
BORIC ACID (H3BO3), POTASSIUM SALT		20786-60-1	1 - < 3*
ALKYLATED DIPHENYLAMINE		Trade Secret	< 1*
Other components below reportal	ble levels		90 - 100

4 First sid massing	
4. First-aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
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	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
6. Accidental release mea	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. 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	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. 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	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
8. Exposure controls/pers	onal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Туре	Value	Form
MOLYBDENUM DISULFIDE	PEL	15 mg/m3	Total dust.
US. ACGIH Threshold Lim	it Values		
Components	Туре	Value	Form
MOLYBDENUM DISULFIDE	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
iological limit values	No biological exposure limits noted for the	e ingredient(s).	
ppropriate engineering ontrols	Good general ventilation should be used. applicable, use process enclosures, local maintain airborne levels below recommen established, maintain airborne levels to a	exhaust ventilation, or othe other o	ner engineering controls to
•	s, such as personal protective equipment		
Eye/face protection	Chemical respirator with organic vapor ca	artridge and full facepiece.	
Skin protection Hand protection	Wear appropriate chemical resistant glov	es	
Other	Use of an impervious apron is recommen		
Respiratory protection	Chemical respirator with organic vapor ca	artridge and full facepiece.	
Thermal hazards	Wear appropriate thermal protective cloth	ning, when necessary.	
eneral hygiene	Observe any medical surveillance require	ements. Always observe q	ood personal hygiene

General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Gray
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	4307 °F (2375 °C) estimated
Initial boiling point and boiling	842 °F (450 °C) estimated
Flash point	> 392.0 °F (> 200.0 °C) ASTM D-92
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.00001 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.

Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.25 g/cm <sup>3</sup>
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidizing properties	Not oxidizing.
Shelf life	4 years
Specific gravity	2.53 estimated
10. Stability and reactivit	у
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	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

## 11. Toxicological information

Information on likely routes of e	exposure	
Inhalation	Prolonged inhalation may be harmful.	
Skin contact	No adverse effects due to skin contact are expected.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.	
Information on toxicological eff	ects	
Acute toxicity	Not known.	
Product	Species	Test Results
FLUOROCARBON GEL 868VL-M	IS	
<u>Acute</u>		
Oral		
LD50	Rat	1e+006 mg/kg
Components	Species	Test Results
MOLYBDENUM DISULFIDE		
<u>Acute</u>		
Inhalation		
LC50	Rat	2820 mg/l/4h
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitizatio	n	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization	ation.
Germ cell mutagenicity	No data available to indicate product or any compo mutagenic or genotoxic.	onents present at greater than 0.1% are

Carcinogenicity	Not classifiable as to carcinogenicity to humans.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Not listed.			
OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-1053)		
Not listed.			
	ogram (NTP) Report on Carcinogens		
Not listed.	Currented of demonstration fortility on the unbown shild		
Reproductive toxicity	Suspected of damaging fertility or the unborn child.		
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful.		
12. Ecological information	n		
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.		
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.		
Bioaccumulative potential	No data available.		
Mobility in soil	No data available.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
13. Disposal consideratio	ns		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.		
Local disposal regulations	Dispose in accordance with all applicable regulations.		
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:		

Contaminated packaging

### 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

### Transport in bulk according to Not established. Annex II of MARPOL 73/78 and

the IBC Code

#### 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

#### **Toxic Substances Control Act (TSCA)**

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Disposal instructions).

disposal.

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency relea Not regulated. OSHA Specifically Regulate Not listed.	se notification ed Substances (29 CFR 1910.1001-1053)
Superfund Amendments and Re	eauthorization Act of 1986 (SARA)
SARA 302 Extremely hazard	dous substance
Not listed.	
SARA 311/312 Hazardous chemical	Yes
Classified hazard categories	Reproductive toxicity
SARA 313 (TRI reporting) Not regulated.	
Other federal regulations	
Clean Air Act (CAA) Sectior Not regulated.	n 112 Hazardous Air Pollutants (HAPs) List
Clean Air Act (CAA) Sectior	n 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.	
Safe Drinking Water Act (SDWA)	Contains component(s) regulated under the Safe Drinking Water Act.

#### **US state regulations**

#### **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. For more information go to www.P65Warnings.ca.gov.

#### **International Inventories**

Country(s) or region	Inventory name On inv	ventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
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)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Vee" indicates that all components of this product comply with the inventory requirements administered by the appendix country(a)		

\*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

Issue date	February-11-2014
Revision date	March-10-2023
Version #	03
List of abbreviations	AICIS: Australian Inventory of Industrial Chemicals.
Disclaimer	Nye Lubricants, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

**Revision information** 

This document has undergone significant changes and should be reviewed in its entirety.