

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Appearance Color	Liquid Amber, liquid Amber	Odor Odor Threshold	Slight hydrocarbon Not determined																																																												
<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>Property</u></th> <th style="text-align: left;"><u>Values</u></th> <th colspan="2" style="text-align: left;"><u>Remarks • Method</u></th> </tr> </thead> <tbody> <tr> <td>pH</td> <td>Not applicable</td> <td colspan="2"></td> </tr> <tr> <td>Melting Point/Freezing Point</td> <td>Not available</td> <td colspan="2"></td> </tr> <tr> <td>Boiling Point/Boiling Range</td> <td>280 C / 536 F</td> <td colspan="2"></td> </tr> <tr> <td>Flash Point</td> <td>210 °C / 410 °F</td> <td colspan="2">ASTM D-92</td> </tr> <tr> <td>Evaporation Rate</td> <td>Not available</td> <td colspan="2"></td> </tr> <tr> <td>Flammability (Solid, Gas)</td> <td>Liquid-Not applicable)</td> <td colspan="2"></td> </tr> <tr> <td>Upper Flammability Limits</td> <td>1-10% (V) (based on mineral oil)</td> <td colspan="2"></td> </tr> <tr> <td>Lower Flammability Limit</td> <td>1-10% (V) (based on mineral oil)</td> <td colspan="2"></td> </tr> <tr> <td>Vapor Pressure</td> <td>0.5 Pa at 20 C / 68 F</td> <td colspan="2"></td> </tr> <tr> <td>Vapor Density</td> <td>1</td> <td colspan="2">(Air=1)</td> </tr> <tr> <td>Specific Gravity</td> <td>0.874 at 15 C / 59 F</td> <td colspan="2"></td> </tr> <tr> <td>Water Solubility</td> <td>Negligible</td> <td colspan="2"></td> </tr> <tr> <td>Solubility in other solvents</td> <td>Not determined</td> <td colspan="2"></td> </tr> <tr> <td>Partition Coefficient</td> <td>6</td> <td colspan="2"></td> </tr> </tbody> </table>				<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>		pH	Not applicable			Melting Point/Freezing Point	Not available			Boiling Point/Boiling Range	280 C / 536 F			Flash Point	210 °C / 410 °F	ASTM D-92		Evaporation Rate	Not available			Flammability (Solid, Gas)	Liquid-Not applicable)			Upper Flammability Limits	1-10% (V) (based on mineral oil)			Lower Flammability Limit	1-10% (V) (based on mineral oil)			Vapor Pressure	0.5 Pa at 20 C / 68 F			Vapor Density	1	(Air=1)		Specific Gravity	0.874 at 15 C / 59 F			Water Solubility	Negligible			Solubility in other solvents	Not determined			Partition Coefficient	6		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>																																																													
pH	Not applicable																																																														
Melting Point/Freezing Point	Not available																																																														
Boiling Point/Boiling Range	280 C / 536 F																																																														
Flash Point	210 °C / 410 °F	ASTM D-92																																																													
Evaporation Rate	Not available																																																														
Flammability (Solid, Gas)	Liquid-Not applicable)																																																														
Upper Flammability Limits	1-10% (V) (based on mineral oil)																																																														
Lower Flammability Limit	1-10% (V) (based on mineral oil)																																																														
Vapor Pressure	0.5 Pa at 20 C / 68 F																																																														
Vapor Density	1	(Air=1)																																																													
Specific Gravity	0.874 at 15 C / 59 F																																																														
Water Solubility	Negligible																																																														
Solubility in other solvents	Not determined																																																														
Partition Coefficient	6																																																														

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Auto-ignition Temperature	320 C / 608 F	
Decomposition Temperature	Not determined	
Kinematic Viscosity	46 mm²/s at 40 C / 104 F	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing

Hazardous Polymerization

Will not occur under normal conditions of storage and use.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

Strong oxidizing agents

Hazardous Decomposition Products

Hazardous decomposition products are not expected to form during normal storage.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes.

Skin Contact Avoid contact with skin.

Inhalation Do not inhale.

Ingestion Do not ingest.

Component Information

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Not expected to be carcinogenic. Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

Numerical measures of toxicity

Not determined.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicological data have not been determined specifically for this product. Information given is based on knowledge of the components and the ecotoxicology of similar products.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Highly refined mineral oil (DMSO - extract < 3% IP 346)	LL/EL/IL50 > 100 mg/L			

Persistence/Degradability Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.

Bioaccumulation

Contains components with the potential to bioaccumulate.

Mobility

Liquid under most environmental conditions. If it enters soil, it will adsorb to soil particles and will not be mobile. Floats on water.

Other Adverse Effects

Not determined

US Federal Regulations

CERCLA Defined as an "oil" under CERCLA Petroleum Exclusion therefor releases to the environment are not reportable under CERCLA.

SARA 311/312 Hazard Categories

No SARA 311/312 hazards.

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313

This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, part 372.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations.

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	0	1	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	1	0	Not determined

Issue Date: 5-Jun-2015
Revision Date: N/A
Revision Note: N/A

Disclaimer

The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

End of Safety Data Sheet