Version Number 1.0 Revision Date 01/05/2024



Page 1 of 16 Print Date 11/23/2024

## SAFETY DATA SHEET

### GEON 201LF-75 NATURAL MF

Section 1. Identification		
GHS product identifier Chemical name	:	GEON 201LF-75 NATURAL MF Mixture
CAS number Other means of identification Product type	:	Mixture VC10014297 solid
Relevant identified uses of the subs		or mixture and uses advised against
Product use Supplier's details	:	Industrial applications. Plastics. GEON Performance Solutions LLC
		25777 Detroit Road Suite 202, Westlake, Ohio 44145
Emergency telephone number (with hours of operation)	:	1-800-GET-GEON or 1-800-438-4366 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

## Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. All ingredients are bound in a PVC polymer matrix and potential for hazardous exposure as shipped is minimal. PVC resin is manufactured from Vinyl Chloride Monomer (VCM). PVC resin manufacturers take special efforts to strip residual VCM from their resins. Residual VCM in the resin is typically below 8.5 ppm. However, VCM is a known carcinogen. The end-user (fabricator) should take necessary precautions (mechanical ventilation, local exhaust, respiratory protection, etc.) to protect employees from exposure to any vapors or dusts that may be released during heating or fabrication. See Sections 8 and 11 for special precautions.After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.
GHS label elements		

Version Number 1.0 Revision Date 01/05/2024 Page 2 of 16 Print Date 11/23/2024

Signal word	:	No signal word.
Hazard statements	:	No known significant effects or critical hazards.
Precautionary statements		
	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.
		Not available.

## Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	VC10014297

**CAS number/other identifiers** 

Ingredient name	%	CAS number
Di(2-ethylhexyl) phthalate	>= 25 - <= 50	117-81-7
Proprietary Hazardous Compounds	> 0 - <= 0.3	3-40-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.
Inhalation	<ul> <li>Get medical attention if irritation occurs.</li> <li>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</li> </ul>
	2/16





Version Number 1.0	Page 3 of 16
Revision Date 01/05/2024	Print Date 11/23/2024

Skin contact Ingestion	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Most important symptoms/effects, ac	ute a	and delayed
Potential acute health effects		
Eye contact Inhalation Skin contact Ingestion <u>Over-exposure signs/symptoms</u>	:	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Indication of immediate medical atte	entio	n and special treatment needed, if necessary
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO <sub>2</sub> . None known.
Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal	:	May emit Hydrogen Chloride (HCl).
		3/16



Version Number 1.0	Page 4 of 16
Revision Date 01/05/2024	Print Date 11/23/2024

decomposition products	c c ł	Decomposition products may include the following materials: earbon dioxide earbon monoxide halogenated compounds netal oxide/oxides
Special protective actions for fire- fighters	(	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Ì	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated n positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment	nt ar	id cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling



Version Number 1.0	Page 5 of 16
Revision Date 01/05/2024	Print Date 11/23/2024

Protective measures	:	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational	:	Eating, drinking and smoking should be prohibited in areas where this
hygiene		material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

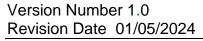
## Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits
Di(2-ethylhexyl) phthalate	OSHA PEL 1989 (1989-03-01) TWA 5 mg/m3 STEL 10 mg/m3 OSHA PEL (1993-06-30) TWA 5 mg/m3 NIOSH REL (1994-06-01) TWA 5 mg/m3 STEL 10 mg/m3 ACGIH TLV (1999-03-01) TWA 5 mg/m3
Proprietary Hazardous Compounds	None.

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be



GEON **Performance Solutions** 

Page 6 of 16
Print Date 11/23/2024

		necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

Physical state Color	:	solid [Pellets.] NO PIGMENT
Odor	:	Not available.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.

Version Number 1.0 Revision Date 01/05/2024 GEON **Performance Solutions** 

> Page 7 of 16 Print Date 11/23/2024

Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: Not available.
(flammable) limits		Upper: Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	1.24
Solubility	:	Not available.
Solubility in water	:	Not available.
Partition coefficient: n-	:	Not available.
octanol/water		
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
-		Kinematic: Not available.
<u>Aerosol product</u>		
Heat of combustion	:	Not available.
Ignition distance	:	Not available.
Enclosed space ignition - Time	:	Not available.
equivalent		
Enclosed space ignition -	:	Not available.
Deflagration density		
Flame height	:	Not available.

:

Not available.

## Section 10. Stability and reactivity

Flame duration

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Avoid contact with acetal homopolymers and acetyl homopolymers during processing.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Version Number 1.0 Revision Date 01/05/2024 Page 8 of 16 Print Date 11/23/2024

## Section 11. Toxicological information

### Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
1,2-Benzenedicarboxylic acid, 1	,2-bis(2-ethylhexyl)	ester		
	LD50 Oral	Rat	30,000 mg/kg	-
	LD50 Dermal	Rabbit	25,000 mg/kg	-

Conclusion/Summary

: Mixture.Not fully tested.

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
1,2-Benzenedicarboxylic acid, 1,2-bis(2-ethylhexyl) ester	Eyes - Mild irritant	Rabbit	-	24 hrs	-
	Skin - Mild irritant	Rabbit	-	24 hrs	-
	Eyes - Mild irritant	Rabbit	-		-

Conclusion/Summary		
Skin	:	Mixture.Not fully tested.
Eyes	:	Mixture.Not fully tested.
Respiratory	:	Mixture.Not fully tested.
Sensitization		
Conclusion/Summary		
Skin	:	Mixture.Not fully tested.
Respiratory	:	Mixture.Not fully tested.
<b>Mutagenicity</b>		
Conclusion/Summary	:	Mixture.Not fully tested.
<b>Carcinogenicity</b>		
Conclusion/Summary	:	Mixture.Not fully tested.
<b>Classification</b>		

Product/ingredient name	OSHA	IARC	NTP
1,2-Benzenedicarboxylic -	-	2B	Reasonably anticipated to be a human carcinogen.

Version Number 1.0 Revision Date 01/05/2024 Page 9 of 16 Print Date 11/23/2024

acid, 1,2-bis(2-ethylhexyl)		
ester		

### **Reproductive toxicity**

**Conclusion/Summary** : Mixture.Not fully tested.

### **Teratogenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Proprietary Hazardous Compounds	Category 1	-	-

### Aspiration hazard

Not available.

## **Information on the likely routes of** : Not available. **exposure**

### Potential acute health effects

Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

### Short term exposure

Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.



Version Number 1.0 Revision Date 01/05/2024



Page 10 of 16 Print Date 11/23/2024

Long term exposure	
Potential immediate effects Potential delayed effects	<ul><li>Not available.</li><li>Not available.</li></ul>
Potential chronic health effects	
Conclusion/Summary	: Mixture.Not fully tested.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Numerical measures of toxicity	
<u>Acute toxicity estimates</u> N/A	
Other information	: This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

## Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
1,2-Benzenedicarboxylic acid,	1,2-bis(2-ethylhexyl) ester		
	Acute LC50 37.95 Mg/l Fresh	Fish - Cyprinus carpio	96 h
	water		
	Acute EC50 0.000133 Mg/l	Daphnia - Daphnia pulex	48 h
	Fresh water		
	Acute EC50 31 Mg/l Marine	Algae - Karenia brevis	96 h
	water		
	Chronic NOEC 0.076 Mg/l	Algae - Hormosira banksii	72 h
	Marine water		
	Chronic NOEC 0.0001 Mg/l	Fish - Poecilia reticulata	28 d
	Fresh water		
	Chronic NOEC 0.109 Mg/l Fresh	Crustaceans - Eurytemora	21 d



Version Number 1.0 Revision Date 01/05/2024

### Page 11 of 16 Print Date 11/23/2024

	water	affinis	
	Chronic NOEC 0.077 Mg/l Fresh	Daphnia - Daphnia magna	21 d
	water		
GEON 201LF-75 NATURAL N	МF		
Remarks - Acute - Aquatic	Chemicals are not readily availabl	e as they are bound within the pol	ymer matrix.
invertebrates.:			
Conclusion/Summary	: Chemicals are not read polymer matrix.	ly available as they are bound wi	thin the
Persistence and degradability			
Conclusion/Summary	: Chemicals are not read polymer matrix.	ily available as they are bound w	ithin the
Conclusion/Summary	: Chemicals are not read polymer matrix.	ily available as they are bound w	ithin the

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
1,2-Benzenedicarboxylic acid, 1,2-	7.6	1,380.00	high
bis(2-ethylhexyl) ester			

### **Mobility in soil**

Soil/water partition coefficient (KOC)	:	Not available.
Other adverse effects	:	No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods :	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered
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Version Number 1.0 Revision Date 01/05/2024



Page 12 of 16 Print Date 11/23/2024

when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Listed

Ingredient	CAS #	Status	Reference number
Di(2-ethylhexyl) phthalate	117-81-7	Listed	

## Section 14. Transport information

U.S.DOT 49CFR Ground/Air/Water	: Not regulated for transportation.
International Air ICAO/IATA	: Not classified as dangerous goods under transport regulations.
International Water IMO/IMDG	: Not classified as dangerous goods under transport regulations.

## Section 15. Regulatory information

U.S. Federal regulations	<ul> <li>United States - TSCA 12(b) - Chemical export notification: None of the components are listed.</li> <li>United States - TSCA 4(a) - Final Test Rules: Not listed</li> <li>United States - TSCA 4(a) - ITC Priority list: Not listed</li> <li>United States - TSCA 4(a) - Proposed test rules: Not listed</li> <li>United States - TSCA 4(f) - Priority risk review: Not listed</li> <li>United States - TSCA 4(f) - Priority risk review: Not listed</li> <li>United States - TSCA 5(a)2 - Final significant new use rules: Not listed</li> <li>United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed</li> <li>United States - TSCA 5(e) - Substances consent order: Not listed</li> <li>United States - TSCA 6 - Final risk management: Not listed</li> <li>United States - TSCA 8(a) - Chemical risk rules: Not listed</li> <li>United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined</li> </ul>
	United States - TSCA 8(a) - Preliminary assessment report 12/16
	12/10



Version Number 1.0	Page 13 of 16
Revision Date 01/05/2024	Print Date 11/23/2024

		(PAIR): Not listed United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Di(2-ethylhexyl) phthalate Miscellaneous Zinc Compounds 2-Ethylhexanoic acid zinc salt Phenol Vinyl chloride monomer
		United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed United States - Department of commerce - Precursor chemical: Not listed
Clean Air Act Section 112(b)	:	Listed
Hazardous Air Pollutants (HAPs) Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential Chemicals)	:	Not listed

### US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	RQ for component
Di(2-ethylhexyl) phthalate	117-81-7	100 lb(s) 45.4 kg

### SARA 311/312

Classification

Not applicable.

:

### **Composition/information on ingredients**

No products were found.

i to products were round.		-
Name	%	Classification
		13/16

Version Number 1.0 Revision Date 01/05/2024

### Page 14 of 16 Print Date 11/23/2024

1,2-Benzenedicarboxylic acid, 1,2-bis(2-ethylhexyl) ester	>= 25 - <= 50	EYE IRRITATION - Category 2B CARCINOGENICITY - Category 2
Proprietary Hazardous Compounds	> 0 - <= 0.3	ACUTE TOXICITY - oral - Category 4 ACUTE TOXICITY - inhalation - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A GERM CELL MUTAGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

### Form R - Reporting requirements

Product name	CAS number	%
Di(2-ethylhexyl) phthalate	117-81-7	>= 25 - <= 50

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Not applicable.

ne of the components are listed.
e following components are listed: i(2-ethylhexyl) phthalate
e following components are listed: thene, chloro-, homopolymer i(2-ethylhexyl) phthalate alcium carbonate
e following components are listed: i(2-ethylhexyl) phthalate alcium carbonate

### California Prop. 65

WARNING: This product can expose you to Di(2-ethylhexyl) phthalate, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

dosage level
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# **GEON**<sup>®</sup> Performance Solutions

Version Number 1.0 Revision Date 01/05/2024 Page 15 of 16 Print Date 11/23/2024

Di(2-ethylhexyl) phthalate		Yes.	Yes.
United States inventory (TSCA 8b)	:	All components are active or exempted.	
Canada inventory	:	At least one component is not listed in DS are listed in NDSL.	L but all such components
International regulations			
<u>Inventory list</u>			
Australia	:	Not determined.	
Canada	:	At least one component is not listed in DS are listed in NDSL.	SL but all such components
China	:	All components are listed or exempted.	
Europe inventory	:	All components are listed or exempted.	
Japan	:	Not determined.	
New Zealand	:	All components are listed or exempted.	
Philippines	:	Not determined.	
Republic of Korea	:	All components are listed or exempted.	
Taiwan	:	All components are listed or exempted.	
Turkey	:	Not determined.	
United States	:	All components are active or exempted.	

### Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	/	0
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual. History

Date of printing	:	11/23/2024
Date of issue/Date of revision	:	01/05/2024

Version Number 1.0 Revision Date 01/05/2024 Page 16 of 16 Print Date 11/23/2024

GEO

**Performance Solutions** 

Date of previous issue Version	:	00/00/0000 1.0
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations Not available.
Kelerences	•	not available.

Notice to reader

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