

# SAFETY DATA SHEET

**PERMATREAT™ PC-191T** 

### Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	PERMATREAT™ PC-191T
Other means of identification	:	Not applicable.
Recommended use	:	REVERSE OSMOSIS ANTISCALANT
Restrictions on use	:	Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.
Company	:	Nalco Company 1601 W. Diehl Road Naperville, Illinois 60563-1198 USA TEL: (630) 305-1000
Emergency telephone number	:	(800) 424-9300 (24 Hours) CHEMTREC
Issuing date	:	10/07/2021

## Section: 2. HAZARDS IDENTIFICATION

### **GHS Classification**

Not a hazardous substance or mixture.

### **GHS Label element**

Precautionary Statements :	Prevention: Wash hands thoroughly after handling. Response: Get medical advice/ attention if you feel unwell. Storage: Store in accordance with local regulations.
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Other hazards : None known.

# Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

No hazardous ingredients

### Section: 4. FIRST AID MEASURES

In case of eye contact	:	Rinse with plenty of water. Get medical attention if symptoms occur.
In case of skin contact	:	Wash off with soap and plenty of water. Get medical attention if symptoms occur.
If swallowed	:	Rinse mouth. Get medical attention if symptoms occur.

If inhaled	:	Get medical attention if symptoms occur.
Protection of first-aiders	:	In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
Notes to physician	:	Treat symptomatically.
Most important symptoms and effects, both acute and delayed	:	See Section 11 for more detailed information on health effects and symptoms.

# Section: 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	None known.
Specific hazards during firefighting	:	Not flammable or combustible.
Hazardous combustion products	:	Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus
Special protective equipment for firefighters	:	Use personal protective equipment.
Specific extinguishing methods	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	No special environmental precautions required.
Methods and materials for containment and cleaning up	:	Stop leak if safe to do so. Contain spillage, and then collect with non- combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

Section: 7. HANDLING AND STORAGE		
Advice on safe handling	:	For personal protection see section 8. Wash hands after handling.
Conditions for safe storage	:	Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers.

Suitable material	:	The following compatibility data is suggested based on similar product data and/or industry experience: Stainless Steel 304, Stainless Steel 316**, Brass, CPVC (rigid), HDPE (high density polyethylene), LLDPE, Nylon 11, PVC, Teflon (PTFE), Polyvinylidene difluoride, UHMWPE, Neoprene, EPDM, Viton, Buna-N
Unsuitable material	:	The following compatibility data is suggested based on similar product data and/or industry experience: Mild steel

### Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Personal protective equipment

Eye protection	:	Safety glasses
Hand protection	:	Wear protective gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin protection	:	Wear suitable protective clothing.
Respiratory protection	:	No personal respiratory protective equipment normally required.
Hygiene measures	:	Wash hands before breaks and immediately after handling the product.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.

### Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid
Colour	:	clear amber - yellow green
Odour	:	Ammoniacal
Flash point	:	> 93.3 °C
рН	:	10.0 - 11.5,(1 %), (25 °C)
Odour Threshold	:	no data available
Melting point/freezing point	:	no data available
Initial boiling point and boiling range	:	no data available
Evaporation rate	:	no data available
Flammability (solid, gas)	:	Not applicable.
Upper explosion limit	:	no data available

Lower explosion limit	:	no data available
Vapour pressure	:	no data available
Relative vapour density	:	no data available
Relative density	:	1.335 - 1.362, (15.6 °C),
Density	:	1.127 g/cm3 , 11.3 lb/gal
Water solubility	:	completely soluble
Solubility in other solvents	:	no data available
Partition coefficient: n- octanol/water	:	Pow: 3.5, log Pow: 0.544
Auto-ignition temperature	:	no data available
Thermal decomposition	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available
Molecular weight	:	no data available
VOC	:	0 %, Calculation method

# Section: 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	Freezing temperatures.
Incompatible materials	:	None known.
Hazardous decomposition products	:	In case of fire, hazardous decomposition products may be produced such as: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

### Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation, Eye contact, Skin contact
exposure		

### **Potential Health Effects**

Ingestion	:	Health injuries are not known or expected under normal use.
Skin	:	Health injuries are not known or expected under normal use.
Eyes	:	Health injuries are not known or expected under normal use.

Inhalation		Health injurios are not known ar expected under normal use
IIIIalation	•	Health injuries are not known or expected under normal use.
Chronic Exposure	:	Health injuries are not known or expected under normal use.
Experience with human exp	osı	Ire
Eye contact	:	No symptoms known or expected.
Skin contact	:	No symptoms known or expected.
Ingestion	:	No symptoms known or expected.
Inhalation	:	No symptoms known or expected.
Toxicity		
<u>Product</u>		
Acute oral toxicity	:	LD50 rat: > 17,800 mg/kg Test substance: Similar Product
Acute inhalation toxicity	:	no data available
Acute dermal toxicity	:	LD50 rabbit: > 15,800 mg/kg Test substance: Similar Product
Skin corrosion/irritation	:	Species: Rabbit Exposure time: 24 hrs Result: 0.3 Method: Draize Test Test substance: Similar Product
Serious eye damage/eye irritation	:	Species: rabbit Exposure time: 24 hrs Result: 3.7 Method: Draize Test Test substance: Similar Product
Respiratory or skin sensitization	:	no data available
Carcinogenicity	:	no data available
Reproductive effects	:	no data available
Germ cell mutagenicity	:	no data available
Teratogenicity	:	no data available
STOT - single exposure	:	no data available
STOT - repeated exposure	:	no data available
Aspiration toxicity	:	no data available
Section: 12. ECOLOGICAL I	NF	ORMATION

# Section: 12. ECOLOGICAL INFORMATION

# Toxicity

**Environmental Effects** 

: This product has no known ecotoxicological effects.

### Product

: LC50 Oncorhynchus mykiss (rainbow trout): > 330 mg/l
Exposure time: 96 hrs Test substance: Similar Product
LC50 Cyprinodon variegatus (sheepshead minnow): 8,132 mg/l
Exposure time: 96 hrs Test substance: Similar Product
LC50 Lepomis macrochirus (Bluegill sunfish): > 330 mg/l Exposure time: 96 hrs Test substance: Similar Product
LC50 Ictalurus punctatus (channel catfish): 1,212 mg/l Exposure time: 96 hrs Test substance: Similar Product
LC50 Oncorhynchus mykiss (rainbow trout): 4,530 mg/l Exposure time: 96 hrs Test substance: Product Test Type: Static
NOEC Oncorhynchus mykiss (rainbow trout): 3,600 mg/l Exposure time: 96 hrs Test substance: Product Test Type: Static
LC50 Inland Silverside: > 10,000 mg/l Exposure time: 96 h Test substance: Product
NOEC Inland Silverside: 10,000 mg/l Exposure time: 96 h Test substance: Product
: LC50 Grass Shrimp: 4,575 mg/l Exposure time: 96 hrs Test substance: Similar Product
LC50 Daphnia magna (Water flea): 1,673 mg/l Exposure time: 48 hrs Test substance: Product Test Type: Static
EC50 Daphnia magna (Water flea): 297 mg/l Exposure time: 48 hrs Test substance: Similar Product
NOEC Daphnia magna (Water flea): 1,296 mg/l Exposure time: 48 hrs Test substance: Product Test Type: Static

		LC50 Mysid Shrimp (Mysidopsis bahia): 8,263 mg/l Exposure time: 96 h Test substance: Product
		NOEC Mysid Shrimp (Mysidopsis bahia): 6,000 mg/l Exposure time: 96 h Test substance: Product
Toxicity to algae	:	LC50 Green Algae (Pseudokirchneriella subcapitata, previously Selenastrum capricornutum): 20 mg/l Exposure time: 96 hrs Test substance: Similar Product
Toxicity to fish (Chronic toxicity)	:	LOEC: 47.6 mg/l Exposure time: 60 Days Species: Oncorhynchus mykiss (rainbow trout) Test substance: Similar Product
		NOEC: 23 mg/l Exposure time: 60 Days Species: Oncorhynchus mykiss (rainbow trout) Test substance: Similar Product
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	LOEC: 50 mg/l Exposure time: 28 Days Species: Daphnia magna Test substance: Similar Product Test Type: 3 Brood
		NOEC: 25 mg/l Exposure time: 28 Days Species: Daphnia magna Test substance: Similar Product Test Type: 3 Brood
Toxicity to terrestrial organisms	:	LC50 Bobwhite Quail: > 2,510 mg/kg Exposure time: 14 Days Test substance: Similar Product
		LC50 Mallard Duck: > 2,510 mg/kg Exposure time: 14 Days Test substance: Similar Product

### Persistence and degradability

Total Organic Carbon (TOC): 65,000 mg/l

### Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

# PERMATREAT<sup>™</sup> PC-191T

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	: <5%
Water	: 30 - 50%
Soil	: 50 - 70%

The portion in water is expected to be soluble or dispersible.

#### Bioaccumulative potential

no data available

### Other information

no data available

### Section: 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

Disposal methods	Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.
Disposal considerations	<ul> <li>Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.</li> </ul>

### Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)	
Proper shipping name	: PRODUCT IS NOT REGULATED DURING TRANSPORTATION
Air transport (IATA)	
Proper shipping name	: PRODUCT IS NOT REGULATED DURING TRANSPORTATION
Sea transport (IMDG/IMO)	
Proper shipping name	: PRODUCT IS NOT REGULATED DURING TRANSPORTATION
Section: 15. REGULATOR	/ INFORMATION
<b>B</b>	

# **TSCA list** : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

### EPCRA - Emergency Planning and Community Right-to-Know Act

### CERCLA Reportable Quantity

This product does not contain a RQ substance, or this product contains a substance with a RQ, however the calculated RQ exceeds the reasonably attainable upper limit.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 302	:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### INTERNATIONAL CHEMICAL CONTROL LAWS :

#### **United States TSCA Inventory**

On or in compliance with the active portion of the TSCA inventory

### Australia. Australian Industrial Chemicals Introduction Scheme (AICIS)

All substances in this product comply with the Australian Industrial Chemicals Introduction Scheme (AICIS)

### **Canadian Domestic Substances List (DSL)**

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

### Japan. ENCS - Existing and New Chemical Substances Inventory

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

### Korea. Korean Existing Chemicals Inventory (KECI)

All substances in this product comply with the Chemical Control Act (CCA) and are listed on the Existing Chemicals List (ECL)

### Philippines Inventory of Chemicals and Chemical Substances (PICCS)

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

### **China Inventory of Existing Chemical Substances**

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

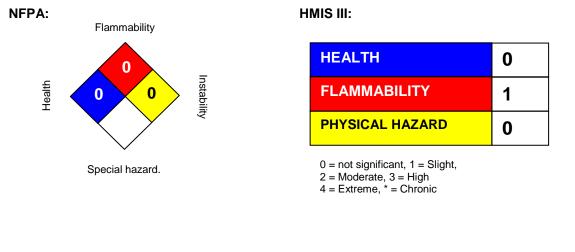
### New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand

All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

### **Taiwan Chemical Substance Inventory**

All substances in this product comply with the Taiwan Existing Chemical Substances Inventory (ECSI).

### Section: 16. OTHER INFORMATION



Revision Date	:	10/07/2021
Version Number	:	1.3
Prepared By	:	Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. For additional copies of an SDS visit www.nalco.com and request access.