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Revision Date 09-July-2015

Revision Number 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name: Thermo Scientific NanoDrop Pedestal Reconditioning Compound (PR-1)
Product Code: CHEM-PR-1-KIT
Recommended Use: Clean and recondition measurement pedestals on all Thermo Scientific NanoDrop Instruments.
Restrictions on Use: No information available.
Supplier Address:
 Thermo Fisher Scientific
 3411 Silverside Road
 Bancroft Bldg., Ste. 100
 Wilmington, DE 19810
 302-479-7707
 Toll free: 1-877-724-7690
Emergency Telephone Number USA 1-800-535-5053 (INFOTRAC)
 Outside the U.S. call collect 1-352-323-3500

2. HAZARDS IDENTIFICATION

Classification


This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Acute Toxicity	
Flammable liquids	Category 1
	Category 4

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word Danger
Hazard Statements
 • May be fatal if swallowed and enters airways
 • Combustible liquid.



Appearance White
Physical State Solid.
Odor Pine

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Thermo Scientific NanoDrop Products
302-479-7707

Wilmington, Delaware USA
Toll free (US & Canada): 877-724-7690

5035 Rev3 - 9 July 2015
Technical support: nanodrop@thermofisher.com
www.thermoscientific.com/nanodrop

Thermo Scientific NanoDrop Pedestal Reconditioning Compound (PR-1)

Precautionary Statements

- Prevention**
 • Keep away from heat/sparks/open flames/hot surfaces - No smoking.
 • Wear protective gloves/protective clothing/eye protection/face protection.
- General Advice**
 • None
- Ingestion**
 • IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 • Do NOT induce vomiting.
- Fire**
 • In case of fire: Use CO₂, dry chemical, or foam for extinction.
- Storage**
 • Store locked up.
 • Store in a well-ventilated place. Keep cool.
- Disposal**
 • Dispose of contents/container to an approved waste disposal plant.

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

36.04743% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Petroleum distillates, hydrotreated light	64742-47-8	25-50	*
Aluminum oxide	1344-28-1	25-50	*
Solvent naphtha (petroleum, medium aromatic)	64742-98-7	<10	*
Triethanolamine	102-71-6	<10	*
Tall oil fatty acids	61790-12-3	<10	*
Hygiene glycol	107-41-5	<10	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary first-aid measures

- Eye Contact**
 Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
- Skin Contact**
 Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
- Inhalation**
 Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
- Ingestion**
 Drink plenty of water. Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
- Protection of First-aiders**
 For personal protection see Section 8

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Aspiration into lungs can produce severe lung damage

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Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide (CO₂), Foam, Dry powder, Dry chemical.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical

Combustible liquid. Vapors may travel to source of ignition and flash back. Thermal decomposition can lead to release of irritating gases and vapors.

Explosion Data

Sensitivity to Mechanical Impact None.
 Sensitivity to Static Discharge Yes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with the skin and the eyes. Use personal protective equipment. Remove all sources of ignition.

Environmental Precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up Dam up. Soak up with inert absorbent material. Clean contaminated surface thoroughly. Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Ensure adequate ventilation. Remove all sources of ignition.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.
Incompatible Products None known based on information supplied.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum distillates, hydrotreated light 64742-47-8	TWA: 5 mg/m ³ STEL: 10 mg/m ³ (as oil mist)	TWA: 5 mg/m ³ (as oil mist)	
Aluminum oxide 1344-28-1	TWA: 1 mg/m ³ respirable fraction	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction	
Triethanolamine 102-71-6	TWA: 5 mg/m ³		
Tall oil fatty acids 61790-12-3	5 mg/m ³ (resp) 10 mg/m ³ STEL (resp)	5 mg/m ³ (resp)	
Hygiene glycol 107-41-5	ceiling: 25 ppm	(vacated) Ceiling: 25 ppm (vacated) Ceiling: 125 mg/m ³	ceiling: 25 ppm Ceiling: 125 mg/m ³

Immediately Dangerous to Life or Health.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 955 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures

Showers
 Eyewash stations
 Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields.
Skin and Body Protection Protective gloves.
Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Solid	Appearance	White
Odor	Pine	Odor Threshold	No information available
Property	Values	Remarks - Method	
pH	No data available	None known	
Melting Point/Range	55 °C	None known	
Boiling Point/Boiling Range	No data available	None known	
Flash Point	90 °C / 194 °F	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limits in Air	No data available	None known	
upper flammability limit	No data available	None known	
lower flammability limit	No data available	None known	
Vapor Pressure	No data available	None known	

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Vapor Density	No data available	None known
Specific Gravity	No data available	None known
Water Solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known
Flammable Properties	Combustible material; may burn but does not ignite readily.	
Explosive Properties	No data available	
Oxidizing Properties	No data available	
Other information		
VOC Content (%)	<30	

10. STABILITY AND REACTIVITY

- Reactivity**
No data available.
- Chemical stability**
Stable under normal conditions.
- Possibility of hazardous reactions**
None under normal processing.
- Hazardous Polymerization**
Hazardous polymerization does not occur.
- Conditions to avoid**
Heat, flames and sparks.
- Incompatible materials**
None known based on information supplied.
- Hazardous decomposition products**
None under normal use. Thermal decomposition can lead to release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information
Inhalation: No known effect.
Contact with eyes may cause irritation.
Prolonged or repeated contact may dry skin and cause irritation. Causes mild skin irritation.
Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Potential for aspiration if swallowed.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, hydrocarbon light	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Aluminum oxide	> 5000 mg/kg (Rat)	-	-
Solvent naphtha (petroleum), medium aromatic	> 5000 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Triethanolamine	= 4190 mg/kg (Rat)	> 2000 mg/kg (Rabbit) > 16 mL/kg (Rat)	-
Tall oil fatty acids	= 7800 mg/kg (Rat)	-	-
Hexylene glycol	= 3692 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	> 310 mg/m ³ (Rat) 1 h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure
No information available.

Sensitization
No information available.

Mutagenic Effects
No information available.

Carcinogenicity
The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Triethanolamine		Group 3		

IARC: (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to its Carcinogenicity to Humans

Reproductive Toxicity
STOT - single exposure: No information available.
STOT - repeated exposure: No information available.
Chronic Toxicity: Avoid repeated exposure. Repeated contact may cause allergic reactions in very susceptible persons. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
Target Organ Effects
Aspiration Hazard: May be fatal if swallowed and enters airways.

Numerical measures of toxicity - Product
Acute Toxicity: 36.04743% of the mixture consists of ingredient(s) of unknown toxicity.
The following values are calculated based on chapter 3.1 of the GHS document:
LD50 Oral: 14428 mg/kg; Acute toxicity estimate
LD50 Dermal: 25219 mg/kg; Acute toxicity estimate
Inhalation dust/mist: 67.1 mg/L; Acute toxicity estimate mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Petroleum distillates, hydrocarbon light 64742-47-8		LC50 96 h: = 45 mg/L flow-through (Pimephales promelas) LC50 96 h: = 2.2 mg/L static (Lepomis macrochirus) LC50 96 h: = 2.4 mg/L static (Oncorhynchus mykiss)		LC50 96 h: = 4720 mg/L (Daphnia magna) LC50 96 h: = 4720 mg/L (Daphnia magna)
Aluminum oxide 1344-28-1		LC50 96 h: > 100 mg/L semistatic (Salmo trutta)		LC50 48 h: > 100 mg/L (Daphnia magna)

Solvent naphtha (petroleum), medium aromatic 64742-88-7	EC50 96 h: = 450 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: = 800 mg/L static (Pimephales promelas)	EC50 > 10000 mg/L 30 min	EC50 48 h: > 100 mg/L (Daphnia magna)
Triethanolamine 102-71-5	EC50 72 h: = 216 mg/L (Desmodesmus subspicatus) EC50 96 h: = 168 mg/L (Desmodesmus subspicatus)	LC50 96 h: 10500 - 13000 mg/L flow-through (Pimephales promelas) LC50 96 h: > 10000 mg/L static (Pimephales promelas) LC50 96 h: 450 - 1000 mg/L static (Lepomis macrochirus)	EC50 > 10000 mg/L 30 min	EC50 94 h: = 1386 mg/L (Daphnia magna)
Tall oil fatty acids 61790-12-3	EC50 72 h: >= 1000 mg/L (Pseudokirchneriella subcapitata)			
Hexylene glycol 107-41-5		LC50 96 h: 10500 - 11000 mg/L flow-through (Pimephales promelas) LC50 96 h: = 10000 mg/L static (Lepomis macrochirus) LC50 96 h: = 6690 mg/L flow-through (Pimephales promelas) LC50 96 h: = 10700 mg/L static (Pimephales promelas)	EC50 = 3038 mg/L 5 min	EC50 48 h: 2700 - 3700 mg/L (Daphnia magna)

Persistence and Degradability
No information available.

Bioaccumulation
No information available.

Chemical Name	Log P
Triethanolamine	-2.53
Tall oil fatty acids	5.98
Hexylene glycol	0.13988

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
Dispose of in accordance with federal, state, and local regulations

Contaminated Packaging
Do not re-use empty containers.

California Hazardous Waste Codes
331

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA: Compiles
EINECS: Compiles
ELINCS: Compiles

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). 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.

SARA 311/312 Hazard Categories

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

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).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

X designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Aluminum oxide	X	X	X		
Solvent naphtha (petroleum), medium aromatic	X				X
Triethanolamine	X	X	X		X
Hexylene glycol	X	X	X		X

U.S. EPA Label Information

EPA Pesticide Registration Number: Not applicable

16. OTHER INFORMATION

NFPA	Health Hazard 2	Flammability 2	Instability 0	Physical and Chemical Hazards N/A
MIS	Health Hazard 2	Flammability 2	Physical Hazard 0	Personal Protection B

Prepared By
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General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information is given as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty of 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 material or in any process, unless specified in the text.

End of Safety Data Sheet