

# **SAFETY DATA SHEET**

Creation Date 06-Nov-2014	Revision Date 06-Nov-2014	Revision Number 1	
	1. Identification		
Product Name	Three Step Solution B		
Cat No. :	3323, 3300		
Synonyms	No information available		
Recommended Use	Laboratory chemicals.		
Uses advised against Details of the supplier of the saf	No Information available ety data sheet		
<b>Company</b> Richard Allan Scientific A Subsidiary of Thermo Fisher Sci 4481 Campus Drive Kalamazoo, MI 49008 Tel: (800) 522-7270	Emergency Telephone Number Chemtrec US: (800) 424-9300 entific Chemtrec EU: 001 (202) 483-7616		
	2. Hazard(s) identification		

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements None required

# Hazards not otherwise classified (HNOC) Harmful to aquatic life with long lasting effects

# 3. Composition / information on ingredients

Component	CAS-No	Weight %
Water	7732-18-5	>95
Sodium phosphate dibasic	7558-79-4	<1.0
Dihydrogen potassium phosphate	7778-77-0	<1.0
ProClin 300	55965-84-9	<1
Methylene blue	61-73-4	<1.0
Azure A	531-53-3	<1.0

# 4. First-aid measures

**Eye Contact** 

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
Ingestion	Do not induce vomiting. Obtain medical attention.
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically

#### 5. Fire-fighting measures Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire. **Unsuitable Extinguishing Media** No information available Flash Point Not applicable Method -No information available **Autoignition Temperature** No information available **Explosion Limits** Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

# **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors.

# Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors

# 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.

### <u>NFPA</u>

Health 1		Flammability 0	Instability 0	Physical hazards N/A
		6. Accidental rel	ease measures	
Personal Precau	tions	Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eves and clothing.		
Environmental P	Precautions		the environment. See Section of the environment. Collect sp	•

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

	7. Handling and storage
Handling	Wear personal protective equipment. Ensure adequate ventilation. Do not breathe vapors or spray mist. Do not ingest. Avoid contact with skin and eyes.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.
	8. Exposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by
	OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	Not applicable
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Excess heat.	
Incompatible Materials	None known	
Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	
	11. Toxicological information	
Acute Toxicity		

No acute toxicity information is available for this product

Product Information Component Information

Component		LD50 Oral LD50 Derma		LD50 Dermal	LC50 Inhalation	
Dihydrogen potassium phosphate		Not listed >4640 mg/kg (Rabbit)		No	Not listed	
Toxicologically Synergistic		No information ava	ailable			
Products						
Delayed and immedi	ate effects as	well as chronic effe	cts from short an	d long-term expo	sure	
Irritation		No information ava	No information available			
Sensitization		No information ava	ailable			
Carcinogenicity		The table below in	dicates whether ea	ach agency has lis	ed any ingredient	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed
Sodium phosphate dibasic	7558-79-4	Not listed	Not listed	Not listed	Not listed	Not listed
Dihydrogen potassium phosphate	7778-77-0	Not listed	Not listed	Not listed	Not listed	Not listed
ProClin 300	55965-84-9	Not listed	Not listed	Not listed	Not listed	Not listed
Methylene blue	61-73-4	Not listed	Not listed	Not listed	Not listed	Not listed
Azure A	531-53-3	Not listed	Not listed	Not listed	Not listed	Not listed
Reproductive Effects Developmental Effects Teratogenicity		No information ava	No information available. No information available. No information available.			
STOT - single exposure STOT - repeated exposure		None known None known				
Aspiration hazard		No information available				
Symptoms / effects,both acute and No information availadelayed		ailable				
Endocrine Disruptor Information		No information available				
		The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.				

12. Ecological information

Ecotoxicity	

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
ProClin 300	Not listed	Not listed	EC50 = 5.7 mg/L 16 h	Not listed
Persistence and Degrada	bility No informatic	n available		

**Bioaccumulation/ Accumulation** 

No information available.

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# Mobility

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	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	Not regulated
DOT TDG IATA	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed Canada The product is classified and labeled according to EC directives or corresponding national laws The product is classified and labeled in accordance with Directive 1999/45/EC

# International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Water	Х	Х	-	231-791-2	-		Х	-	Х	Х	Х
Sodium phosphate dibasic	Х	Х	-	231-448-7	-		Х	Х	Х	Х	Х
Dihydrogen potassium phosphate	Х	Х	-	231-913-4	-		Х	Х	Х	Х	Х
ProClin 300	-	Х	-	-	-		Х	Х	-	Х	Х
Methylene blue	Х	Х	-	200-515-2	-		Х	-	Х	Х	Х
Azure A	Х	Х	-	208-510-7	-		-	-	Х	-	-

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable		
SARA 313	Not applicable		
SARA 311/312 Hazardous Categorization Acute Health Hazard			

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

#### Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Sodium phosphate dibasic	Х	5000 lb	-	-

Clean Air Act

Not applicable

**OSHA** Occupational Safety and Health Administration Not applicable

# CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs	
Sodium phosphate dibasic	5000 lb	-	

California Proposition 65 This product does not contain any Proposition 65 chemicals

### State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium phosphate dibasic	Х	Х	Х	-	-

# **U.S. Department of Transportation**

Reportable Quantity (RQ):	Υ
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

**WHMIS Hazard Class** 

Non-controlled

	16. Other information
Prepared By	Regulatory Affairs Richard Allan Scientific A Subsidiary of Thermo Fisher Scientific Tel: (800) 522-7270
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Print Date Revision Summary	06-Nov-2014 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

# **End of SDS**