

SAFETY DATA SHEET

Issue Date 30-04-2018

Revision Date 04-May-2018 Version 4.4

Page 1/17

1. IDENTIFICATION

<u>Product identifier</u> Product Name	SwifTestTM DPD Total Chlorine Reagent			
Other means of identification Product Code(s)	2105660			
Safety data sheet number	M00110			
HMRIC #	HMIRA Registry Number 9936 Filed 2016-04-11			
Recommended use of the chemical	and restrictions on use			
Recommended Use	Laboratory reagent. Indicator for total chlorine.			
Uses advised against	None.			
Restrictions on use	None.			
Details of the supplier of the safety data sheet				

Manufacturer Address

Hach Company P.O.Box 389 Loveland, CO 80539 USA +1(970) 669-3050

Emergency telephone number

+1(303) 623-5716 - 24 Hour Service +1(515)232-2533 - 8am - 4pm CST

2. HAZARDS IDENTIFICATION

Classification

Regulatory Status

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

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Signal word - Warning



Hazard statements

H315 - Causes skin irritation H319 - Causes serious eye irritation

Precautionary statements

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention

Other Hazards Known

May be harmful if swallowed

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

<u>Mixture</u>

Chemical Family Mixture.

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No.	Percent Range	HMRIC #
Sodium phosphate dibasic	7558-79-4	20 - 30%	-
Potassium iodide (KI)	7681-11-0	20 - 30%	-
Salt of N,N-Diethyl-p-Phenylenediamine	-	1 - 5%	-
Glycine, N,N-1,2-ethanediylbis[N-(carboxymethyl)-, disodium salt,	6381-92-6	<1%	-
dihydrate			

4. FIRST AID MEASURES

Description of first aid measur	es
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General advice	Show this safety data sheet to the doctor in attendance.		
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.		
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.		
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.		
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.		
Self-protection of the first aider	Avoid contact with skin, eyes or clothing.		
Most important symptoms and effects, both acute and delayed			
Symptoms	Burning sensation.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	Treat symptomatically.		

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	Caution: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical	No information available.
Hazardous combustion products	Carbon monoxide, Carbon dioxide. Iodine compounds. Phosphorus oxides. Potassium oxides. Sodium monoxide. Nitrogen oxides.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

6. ACCIDENTAL RELEASE MEASURES

U.S. Notice	Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.
Personal precautions, protect	tive equipment and emergency procedures
Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.
Other Information	Refer to protective measures listed in Sections 7 and 8.
EN / AGHS	Page 3 / 17

Environmental precautions			
Environmental precautions	Prevent further leakage or spillage if safe to do so.		
Methods and material for containm	ent and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Pick up and transfer to properly labeled containers.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		
Reference to other sections	See section 8 for more information. See section 13 for more information.		

7. HANDLING AND STORAGE

Precautions for safe handling			
Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact we skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.			
Conditions for safe storage, including any incompatibilities			
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.		
Flammability class	Not applicable		

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium iodide (KI) CAS#: 7681-11-0	TWA: 0.01 ppm	NDF	NDF

Appropriate engineering controls Engineering Controls

Showers Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment No protective equipment is needed under normal use conditions. If exposure limits are Pesniratory protection

Respiratory protection	exceeded or irritation is experienced, ventilation and evacuation may be required.
Hand Protection	Wear suitable gloves. Impervious gloves.
Eye/face protection	If splashes are likely to occur, wear safety glasses with side-shields.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.
General Hygiene Considerations	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

Product Name SwifTestTM DPD Total Chlorine Reagent Revision Date 04-May-2018 Page 5 / 17

Environmental exposure controls

Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.

Thermal hazards

None under normal processing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Odor	powder Odorless	Solid		Color Odor threshold	White to light pink No data available
Property_			Values_		Remarks • Method
Molecular weight	t		No data availa	ble	
рН			No data availa	ble	
Melting point/free	ezing point		145 °C / 293	°F	
Boiling point / bo	oiling range		No data availa	ble	
Evaporation rate			Not applicable		
Vapor pressure			Not applicable		
Vapor density (ai	ir = 1)		Not applicable		
Specific gravity (water = 1 / air = 1)		1.79		
Partition Coeffici	ent (n-octanol/wate	r)	log K _{ow} ~ 0		
Soil Organic Car Coefficient	bon-Water Partition		log K _{oc} ~ 0		
Autoignition tem	perature		No data availa	ble	
Decomposition t	emperature		No data availa	ble	
Dynamic viscosi	ty		Not applicable		
Kinematic viscos	sity		Not applicable		
Solubilitv(ies)					

Solubility(ies)

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature		
Soluble	> 1000 mg/L	25 °C / 77 °F		

Solubility in other solvents

Chemical Name	Chemical Name Solubility classification		Solubility Temperature	
None reported	No information available	No data available	No information available	

Other Information

Metal Corrosivity

Steel Corrosion Rate	0.97 mm/yr / 0.04 in/yr
Aluminum Corrosion Rate	0.15 mm/yr / 0.01 in/yr

Product Name SwifTestTM DPD Total Chlorine Reagent Revision Date 04-May-2018 Page 6/17

Volatile Organic Compounds (VOC) Content Not applicable

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Sodium phosphate dibasic	7558-79-4	No data available	-
Potassium iodide (KI)	7681-11-0	Not applicable	-
Salt of N,N-Diethyl-p-Phenylenediamine	-	Not applicable	-
Glycine, N,N-1,2-ethanediylbis[N-(carboxymeth yl)-, disodium salt, dihydrate	6381-92-6	Not applicable	-

Explosive properties

Upper explosion limit Lower explosion limit		No data available No data available
Flammable properties		
Flash point		Not applicable
Flammability Limit in Air Upper flammability limit: Lower flammability limit:		No data available No data available
Oxidizing properties		No data available.
Bulk density		No data available
Particle Size	No information available	
Particle Size Distribution	No information available	

10. STABILITY AND REACTIVITY

	Page 6/1
Strong acids. Strong bases. Strong oxidizing agents.	
None known based on information supplied.	
_None under normal processing.	
t None None.	
Stable under normal conditions.	
	t None None under normal processing.

Hazardous Decomposition Products

Carbon dioxide. Carbon monoxide. Iodine compounds. Phosphorus oxides. Potassium oxide. Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Inhalation	May cause irritation of respiratory tract.
Eye contact	Irritating to eyes. Causes serious eye irritation.
Skin contact	Causes skin irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Symptoms	Redness. May cause redness and tearing of the eyes.
Aggravated Medical Conditions Toxicologically synergistic products	Skin disorders. Eye disorders. None known.
Toxicokinetics, metabolism and distribution	See ingredients information below.

Chemical name	Toxicokinetics, metabolism and distribution
Sodium phosphate	Phosphates are widely utilized by cells for metabolism of proteins, fats and carbohydrates.
dibasic	
(20 - 30%)	
CAS#: 7558-79-4	
Potassium iodide (KI)	May cross placenta and be excreted in breast milk. May react synergistically with mercury.
(20 - 30%)	
CAS#: 7681-11-0	
Glycine,	EDTA and related compounds are poorly absorbed by the digestive system.
N,N-1,2-ethanediylbis	
[N-(carboxymethyl)-,	
disodium salt,	
dihydrate	
(<1%)	
CAS#: 6381-92-6	

Product Acute Toxicity Data Oral Exposure Route

Test data reported below

Product Name SwifTestTM DPD Total Chlorine Reagent Revision Date 04-May-2018 **Page** 8 / 17

Enders' to t	Demonstrad dag -	Taviaalariaal	Kou literature references and sources for date
Endpoint type	Reported dose	Toxicological	Key literature references and sources for data
Rat	4700 mg/kg	effects	Outside testing
LD ₅₀		Behavioral	
		Flaccid muscle	
		tone	
		Lethargy	
		Prostration	
		Eye	
		Chromodacryorrhe	
		a .	
		Ptosis	
		Gastrointestinal	
		Abnormalities of	
		the gastrointestinal	
		tract	
		Diarrhea	
		Liver	
		Abnormalities of	
		the liver	
		Lungs, Thorax,	
		or Respiration	
		Abnormalities of	
		the lungs	
		Dyspnea	
		Red or brown	
		staining of the	
		nose/mouth area	
		Nutritional and	
		Gross Metabolic	
		Soiling of the	
		anogenital area	
		Wetness of the	
		anogenital area	
		Reproductive	
		Skin and	
		Appendages	
		Piloerection	
Dermal Exposure	Route		No data available
Inhalation (Dust/M	ist) Exposure Rou	te	No data available
Inhalation (Vapor)	Exposure Route		No data available

Inhalation (Gas) Exposure Route

No data available

Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity.

Acute Toxicity Estimations (ATE)

ATEmix (oral)	No information available
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

Ingredient Acute Toxicity Data

Oral Exposure Route	If available, see data below					
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data	
Potassium iodide (KI) (20 - 30%)	Rat LD₅₀	2779 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of	

Product Name SwifTestTM DPD Total Chlorine Reagent Revision Date 04-May-2018 Page 9 / 17

CAS#: 7681-11-0							Chemical Substances)
Salt of N,N-Diethyl-p-Phenyle amine (1 - 5%) CAS#: -	enedi	Rat LD₅₀	695 mg/kg	None reported	None	reported	Outside testing
Glycine, N,N-1,2-ethanediylbis arboxymethyl)-, disod salt, dihydrate (<1%) CAS#: 6381-92-6	Glycine, Rat ethanediylbis[N-(c LD ₅₀ ethyl)-, disodium t, dihydrate (<1%)		3.5		None	reported	RTECS (Registry of Toxic Effects of Chemical Substances)
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effe	cts		ure references and rces for data
Sodium phosphate dibasic (20 - 30%) CAS#: 7558-79-4	Rat LD50	17000 mg/kg	None reported	None reported		RTECS Effec S	(Registry of Toxic ets of Chemical substances)
Potassium iodide (KI) (20 - 30%) CAS#: 7681-11-0	Mouse LD50	1000 mg/kg	None reported	None reported		V	endor SDS
Dermal Exposure Ro	ute			If available, see data be	low		
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effe	ects		ture references and rces for data
Potassium iodide (KI) (20 - 30%) CAS#: 7681-11-0	Rat LD50	> 2000 mg/kg	None reported	None reported		ECHA (The Euro Chemicals Age	
Inhalation (Dust/Mist) Inhalation (Vapor) Ex Inhalation (Gas) Expo Draduct Specific Terr	posure Rout osure Route	e	····· Det	If available, see data be If available, see data be If available, see data be	low		
Product Specific Targ Oral Exposure Route Dermal Exposure Ro Inhalation (Dust/Mist) Inhalation (Vapor) Ex Inhalation (Gas) Expo	ute) Exposure R posure Rout psure Route	oute e		No data available No data available No data available No data available			
Ingredient Specific Ta Oral Exposure Route		Toxicity Single	e Exposure Da	<u>ata</u> If available, see data be	low		
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effe		sou	ture references and rces for data
Potassium iodide (KI) (20 - 30%) CAS#: 7681-11-0	Mouse LDLo	1862 mg/kg	None reported	Lungs, Thorax, Respiration Dyspnea	or	Effec	(Registry of Toxic ets of Chemical substances)
Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route				If available, see data be If available, see data be If available, see data be If available, see data be	low low		
Aspiration toxicity If available, see data b Kinematic viscosity	elow			Not applicable			
Product Skin Corrosi No data available.	on/Irritation	<u>Data</u>					
Ingredient Skin Corro	sion/Irritatio	n Data					

Ingredient Skin Corrosion/Irritation Data If available, see data below

Product Name SwifTestTM DPD Total Chlorine Reagent Revision Date 04-May-2018 Page 10 / 17

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium phosphate dibasic (20 - 30%) CAS#: 7558-79-4	Standard Draize Test	Rabbit	500 mg	24 hours	Skin irritant	RTECS (Registry of Toxic Effects of Chemical Substances)
Potassium iodide (KI) (20 - 30%) CAS#: 7681-11-0	Standard Draize Test	Rabbit	None reported	None reported	Skin irritant	Vendor SDS
Glycine, N,N-1,2-ethanediylbis [N-(carboxymethyl)-, disodium salt, dihydrate (<1%) CAS#: 6381-92-6	Standard Draize Test	Rabbit	500 mg	20 hours	Not corrosive or irritating to skin	ECHA (The European Chemicals Agency)

Product Serious Eye Damage/Eye Irritation Data

No data available.

Ingredient Eye Damage/Eye Irritation Data If available, see data below

,									
Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data			
Sodium phosphate dibasic (20 - 30%) CAS#: 7558-79-4	Standard Draize Test	Rabbit	500 mg	24 hours	Eye irritant	RTECS (Registry of Toxic Effects of Chemical Substances)			
Potassium iodide (KI) (20 - 30%) CAS#: 7681-11-0	Standard Draize Test	Rabbit	None reported	24 hours	Eye irritant	Vendor SDS			
Glycine, N,N-1,2-ethanediylbis [N-(carboxymethyl)-, disodium salt, dihydrate (<1%) CAS#: 6381-92-6	Standard Draize Test	Rabbit	50 mg	None reported	Mild eye irritant	ECHA (The European Chemicals Agency)			

Sensitization Information

<u>Product Sensitization Data</u> Skin Sensitization Exposure Route Respiratory Sensitization Exposure Route

No data available. No data available.

Ingredient Sensitization Data

Skin Sensitization Exposure Route			If available, see data below					
Chemical name	Test method	Species	Species Results Key literature r					
				sources for data				
Potassium iodide (KI)	Patch test	Human	Not confirmed to be a skin sensitizer	ERMA (New Zealands Environmental				
(20 - 30%)				Risk Management Authority)				
CAS#: 7681-11-0								
Descriptions Operations			If a selled a second state balance					

Respiratory Sensitization Exposure Route

If available, see data below.

Chronic Toxicity Information

Product Specific Target Organ Toxicity Repeat Dose Data Oral Exposure Route

No data available.

EN / AGHS

Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route Product Name SwifTestTM DPD Total Chlorine Reagent Revision Date 04-May-2018 Page 11 / 17

No data available. No data available. No data available. No data available.

No data available

Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Oral Exposure Route		If available, see data below			
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Potassium iodide (KI) (20 - 30%) CAS#: 7681-11-0		0.5 mg/kg	90 days	None reported	ECHA (The European Chemicals Agency)
				If available, see data below If available, see data below If available, see data below If available, see data below	

Product Carcinogenicity Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Ingredient Carcinogenicity	Data				
Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Sodium phosphate dibasic	7558-79-4	-	-	-	-
Potassium iodide (KI)	7681-11-0	-	-	-	-
Salt of N,N-Diethyl-p-Phenylenedi amine	-	-	-	-	-
Glycine, N,N-1,2-ethanediylbis[N-(c arboxymethyl)-, disodium salt, dihydrate	6381-92-6	-	-	-	-

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA (Occupational Safety and Health Administration of the US Department of	Does not apply
Labor)	

Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

xposure Route <u>I Mutagenicity *invitro* Data</u> If available, see data below If available, see data below

<u>Product Germ Cell Mutagenicity</u> *invitro* Data No data available.

Ingredient Germ Cell Mutagenicity invitro Data

If available, see data below

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Potassium iodide (KI) (20 - 30%)	Cytogenetic analysis	Rat ascites tumor	500 mg/kg	None reported	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of

Product Name SwifTestTM DPD Total Chlorine Reagent Revision Date 04-May-2018 Page 12 / 17

CAS#: 7681-11-0						Chemical Substances)
Glycine, N,N-1,2-ethanediylbis [N-(carboxymethyl)-, disodium salt, dihydrate (<1%) CAS#: 6381-92-6	•	Hamster lung	200 mg/L	None reported	Positive test result for mutagenicity	

Product Germ Cell Mutagenicity invivo Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Ingredient Germ Cell Mutagenicity invivo Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Product Reproductive Toxicity Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route If available, see data below If available, see data below

No data available No data available No data available No data available No data available

No data available

No data available

No data available

No data available

No data available

Ingredient Reproductive Toxicity Data

Oral Exposure Route		Julu		If available, see data below	
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Potassium iodide (KI) (20 - 30%)	Human TD∟₀	2700 mg/kg	39 weeks	Specific Developmental Abnormalities	RTECS (Registry of Toxic Effects of Chemical
CAS#: 7681-11-0 Chemical name	Endpoint	Reported	Exposure	Endocrine System Toxicological effects	Substances) Key literature references and
Chemical hame	type	dose	time		sources for data
Potassium iodide (KI) (20 - 30%) CAS#: 7681-11-0	Human TD∟o	3240 mg/kg	39 weeks	Effects on Newborn Other neonatal measures or effects Physical Specific Developmental Abnormalities Endocrine system	RTECS (Registry of Toxic Effects of Chemical Substances)
Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route				If available, see data below If available, see data below If available, see data below	

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not considered to be harmful to aquatic life

Product Ecological Data

Aquatic toxicity

Fish

No data available

EN / AGHS

Crustacea Algae

Ingredient Ecological Data

Aquatic toxicity

Fish

If available, see ingredient data below **Chemical name** Exposure Key literature references and Species Endpoint Reported time dose sources for data type Glycine, 96 hours Lepomis macrochirus LC50 159 mg/L Vendor SDS N,N-1,2-ethanediylbis [N-(carboxymethyl)-, disodium salt, dihydrate (<1%) CAS#: 6381-92-6 If available, see ingredient data below Crustacea Key literature references and **Chemical name** Exposure Species Endpoint Reported sources for data time type dose 48 Hours Daphina magna Salt of EC50 10.8 mg/L Internal Data N,N-Diethyl-p-Phenyl enediamine (1 - 5%)CAS#: -If available, see ingredient data below Algae

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Glycine, N,N-1,2-ethanediylbis [N-(carboxymethyl)-, disodium salt, dihydrate (<1%) CAS#: 6381-92-6	72 Hours	None reported	ËC ₅₀	10 mg/L	Vendor SDS

Other Information

Persistence and degradability

Product Biodegradability Data

No data available.

Ingredient Biodegradability Data

Chemical name	Test method	Biodegradation	Exposure time	Results
Potassium iodide (KI) (20 - 30%) CAS#: 7681-11-0	Inorganic Salt	None reported	None reported	Not readily biodegradable
Salt of N,N-Diethyl-p-Phenyl enediamine (1 - 5%) CAS#: -	None reported	None reported	None reported	Not determined

Bioaccumulation

Product Bioaccumulation Data No data available.

EN / AGHS

Product Name SwifTestTM DPD Total Chlorine Reagent Revision Date 04-May-2018 Page 13/17

No data available No data available

Product Name SwifTestTM DPD Total Chlorine Reagent Revision Date 04-May-2018 Page 14 / 17

Partition Coefficient (n-octanol/water)

log Kow ~ 0

Ingredient Bioaccumulation Data

Chemical name	Test method	Exposure time	Species	Bioconcentrat ion factor (BCF)	Results
Potassium iodide (KI) (20 - 30%) CAS#: 7681-11-0	None reported	None reported	None reported	None reported	Not determined
Salt of N,N-Diethyl-p-Phenyl enediamine (1 - 5%) CAS#: -	None reported	None reported	None reported	None reported	Not determined
Glycine, N,N-1,2-ethanediylbis [N-(carboxymethyl)-, disodium salt, dihydrate (<1%) CAS#: 6381-92-6	None reported	None reported	None reported	None reported	Not determined

Mobility

Soil Organic Carbon-Water Partition Coefficient

log K_{oc} ~ 0

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

14. TRANSPORT INFORMATION

<u>U.S. DOT</u>	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG	Not regulated

EN / AGHS

Note:

No special precautions necessary.

Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies. If the item is part of a reagent set or kit the classification would change to the following: UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III. If the item is not regulated, the Chemical Kit classification does not apply.

15. REGULATORY INFORMATION

National Inventories	
TSCA	Complies
DSL/NDSL	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

Complies

Complies

International Inventories EINECS/ELINCS ENCS

	Compiloo
IECSC	Complies
KECL	Complies
PICCS	Complies
TCSI	Complies
AICS	Complies
NZIOC	Complies

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substances Inventory

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

<u>SARA 313</u>

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 No Sudden release of pressure hazard No Reactive Hazard No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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

	7558-79-4				
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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)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium phosphate dibasic	5000 lb	-	RQ 5000 lb final RQ
7558-79-4			RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

New Jersey Trade Secret Registry Number 80100131-5001 (Carboxylate Salt) New Jersey Trade Secret Registry Number 80100131-5002 (DPD Salt) New York Trade Secret Registry Number 478 (DPD Salt) New York Trade Secret Registry Number 479 (Carboxylate Salt) This product complies with Pennsylvania Trade Secret Regulations. This product is registered as a trade secret in the state of Illinois. This product is registered as a trade secret in the state of Massachusetts. This product is registered as a trade secret in the state of New York.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium phosphate dibasic	X	X	Х
7558-79-4			

U.S. EPA Label Information

Chemical name	FIFRA	FDA
Sodium phosphate dibasic	180.0910	21 CFR 182.1778,21 CFR 182.6290,21
		CFR 182.6778,21 CFR 182.8778
Potassium iodide (KI)	180.0940	21 CFR 184.1634

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Special Comments

None

Additional information

Global Automotive Declarable Substance List (GADSL) Not applicable

NFPA and HMIS Classifications

NFPA	Health hazards - 2	Flammability - 0	Instability - 0	Physical and Chemical Properties -
HMIS	Health hazards - 2	Flammability - 0	Physical Hazards - 0	Personal protection - X - See section 8 for more information

Key or legend to abbreviations and acronyms used in the safety data sheet

NIOSH IDLH ACGIH NDF		Immediately Dangerous ACGIH (American Confe no data		ental Industrial Hygienists)
Legend - Section	n 8: EXPOSURE CO	ONTROLS/PERSONAL P	ROTECTION	
TWA	TWA (time-weight	ed average)	STEL	STEL (Short Term Exposure Limit)
MAC	Maximum Allowat	le Concentration	Ceiling	Ceiling Limit Value
Х	Listed		Vacated	These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations.
SKN* RSP+ C M	Skin designation Respiratory sensit Carcinogen mutagen	ization	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant
Prepared By		Hach Product Compliand	ce Department	
Issue Date		30-04-2018		
Revision Date		04-May-2018		
Revision Note		None		

Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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End of Safety Data Sheet