

# SAFETY DATA SHEET

Issue Date 05-Mar-2018 Revision Date 04-May-2018

Version 2.5

## 1. IDENTIFICATION

**Product identifier** 

Product Name DPD Total Chlorine Reagent

Other means of identification

Product Code(s) 1406428

Safety data sheet number M00110

HMIRA # 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 No information available

Details of the supplier of the safety data sheet

**Initial Supplier Identifier** 

Hach Sales & Service LP. 3020 Gore Road, London, Ontario N5V 4T7 Canada Tel: 1-800-665-7635

**Manufacturer Address** 

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

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

CANUTEC 613-992-4624

### 2. HAZARD IDENTIFICATION

#### Classification

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

### 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 water and soap

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P362 + P364 - Take off contaminated clothing and wash it 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

### **Unknown Acute Toxicity**

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

- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

#### **Other Hazards Known**

Toxic by eye contact.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substance**

Not applicable

#### **Mixture**

#### **Chemical Family**

Mixture.

Chemical name	Synonyms	CAS No.	Percent Range	Units	HMIRA#
Sodium phosphate dibasic	No information	7558-79-4	20 - 30%	g	-
	available				
Potassium iodide (KI)	Potassium Iodide	7681-11-0	20 - 30%	g	-
Salt of N,N-Diethyl-p-Phenylenedi amine	No information available	-	1 - 5%	g	HMIRA Registry Number 9935 Filed 2016-04-11 (component); HMIRA Registry Number 9936 Filed 2016-04-11 (component); HMIRA Registry Number 9937 Filed 2016-04-11
Glycine, N,N-1,2-ethanediylbis[N-(c arboxymethyl)-, disodium salt, dihydrate	No information available	6381-92-6	<1%	g	-

## 4. FIRST AID MEASURES

### **Description of first aid measures**

EN / HGHS Page 2/16

**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. Wear personal protective clothing (see section 8).

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

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. Use personal protection equipment.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

WHMIS Notice Only persons properly qualified to respond to an emergency involving hazardous

substances should respond to a spill involving chemicals. See Section 13, Special

Instructions for disposal assistance.

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.

**Environmental precautions** 

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

EN / HGHS Page 3/16

Revision Date 04-May-2018

**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.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

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.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Limits**

Chemical name	Alberta OEL	British Columbia OEL	Manitoba OEL	New Brunswick OEL	New Foundland & Labrador OEL
Potassium iodide (KI) 20 - 30%	NDF	NDF	TWA: 0.01 ppm	NDF	TWA: 0.01 ppm

Chemical name	Northwest Territories OEL	Nova Scotia OEL	Nunavut OEL	Ontario TWA	Prince Edward Island OEL
Potassium iodide (KI) 20 - 30%	NDF	TWA: 0.01 ppm	NDF	TWA: 0.01 ppm	TWA: 0.01 ppm

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium iodide (KI)	TWA: 0.01 ppm	NDF	NDF
20 - 30%			

**Legend** See section 16 for terms and abbreviations

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**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.

**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

EN / HGHS Page 4/16

product. Avoid contact with skin, eyes or clothing.

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

Solid

Appearance powder Odor Odorless

Color White to light pink
Odor threshold No data available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Molecular weight No data available

**pH** No data available

Melting point/freezing point 145 °C / 293 °F

Boiling point / boiling range No data available

Evaporation rate Not applicable

Vapor pressure Not applicable

Vapor density (air = 1) Not applicable

Specific gravity (water = 1 / air = 1) 1.79

Partition Coefficient (n-octanol/water) log K<sub>ow</sub> ~ 0

**Soil Organic Carbon-Water Partition** 

Coefficient

log K<sub>oc</sub> ~ 0

Autoignition temperature No data available

**Decomposition temperature**No data available

Dynamic viscosity Not applicable

Kinematic viscosity Not applicable

### 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	Solubility classification	<u>Solubility</u>	Solubility Temperature
None reported	No information available	No data available	No information available

#### **Other Information**

#### **Metal Corrosivity**

Steel Corrosion Rate0.97 mm/yr / 0.04 in/yrAluminum Corrosion Rate0.15 mm/yr / 0.01 in/yr

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EN / HGHS Page 5/16

#### **Volatile Organic Compounds (VOC) Content**

Not applicable

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

**Explosive properties** 

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point Not applicable

Flammability Limit in Air

Upper flammability limit:No data availableLower flammability limit: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

Reactivity

Not applicable.

Chemical stability

Stability Stable under normal conditions.

**Explosion data** 

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None.

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

**Hazardous polymerization** 

None under normal processing.

Conditions to avoid

**Conditions to avoid**None known based on information supplied.

Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

EN / HGHS Page 6/16

#### **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** Causes serious eye irritation.

**Skin contact** Causes skin irritation.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Aggravated Medical Conditions Skin disorders. Eye disorders.

Toxicologically synergistic

products

None known.

**Toxicokinetics, metabolism and** See ingredients information below.

distribution

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	

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. May cause redness and tearing of the eyes.

**Product Acute Toxicity Data** 

**Oral Exposure Route** 

Test data reported below

EN / HGHS Page 7/16

Endpoint type	Reported dose	<u>Toxicological</u>	Key literature references and sources for data
Rat	4700 mg/kg	<u>effects</u>	Outside testing
LD50		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
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
Inhalation (Gas) Exposure Route

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

### **Unknown Acute Toxicity**

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

- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

### **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 E	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data

EN / HGHS Page 8/16

Potassium iodide (KI) (20 - 30%) CAS#: 7681-11-0	Rat LD <sub>50</sub>	2779 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)
Salt of N,N-Diethyl-p-Phenyl enediamine (1 - 5%) CAS#: -	Rat LD₅o	695 mg/kg	None reported	None reported	Outside testing
Glycine, N,N-1,2-ethanediylbis [N-(carboxymethyl)-, disodium salt, dihydrate (<1%) CAS#: 6381-92-6	Rat LD <sub>50</sub>	2300 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium phosphate dibasic (20 - 30%) CAS#: 7558-79-4	Rat LD <sub>50</sub>	17000 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)
Potassium iodide (KI) (20 - 30%) CAS#: 7681-11-0	Mouse LD <sub>50</sub>	1000 mg/kg	None reported	None reported	Vendor SDS

**Dermal 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)	Rat	> 2000 mg/kg	None	None reported	ECHA (The European
(20 - 30%)	LD50		reported		Chemicals Agency)
CAS#: 7681-11-0			-		

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

### Product Specific Target Organ Toxicity Single Exposure

Data

**Oral Exposure Route** 

Dermal Exposure RouteNo data availableInhalation (Dust/Mist) Exposure RouteNo data availableInhalation (Vapor) Exposure RouteNo data availableInhalation (Gas) Exposure RouteNo data available

### Ingredient Specific Target Organ Toxicity Single Exposure Data

Oral Exposure Route If available, see data below

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Potassium iodide (KI)	Mouse	1862 mg/kg	None	Lungs, Thorax, or	RTECS (Registry of Toxic
(20 - 30%)	LDLo		reported	Respiration	Effects of Chemical
CAS#: 7681-11-0				Dyspnea	Substances)

Dermal Exposure RouteIf available, see data belowInhalation (Dust/Mist) Exposure RouteIf available, see data belowInhalation (Vapor) Exposure RouteIf available, see data belowInhalation (Gas) Exposure RouteIf available, see data below

**Aspiration toxicity** 

If available, see data below

Kinematic viscosity Not applicable

**Product Skin Corrosion/Irritation Data** 

No data available.

**Ingredient Skin Corrosion/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	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

ii avaliable, see data b	CIOW					
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**

**Product Sensitization Data** 

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	Results	Key literature references and
				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				

**Respiratory Sensitization Exposure Route** 

If available, see data below.

**Chronic Toxicity Information** 

Product Specific Target Organ Toxicity Repeat Dose Data

Oral Exposure RouteNo data available.Dermal Exposure RouteNo data available.

EN / HGHS Page 10/16

Inhalation (Dust/Mist) Exposure RouteNo data available.Inhalation (Vapor) Exposure RouteNo data available.Inhalation (Gas) Exposure RouteNo 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%)	Rat NOAEL	0.5 mg/kg	90 days	None reported	ECHA (The European Chemicals Agency)
CAS#: 7681-11-0					]

Dermal Exposure RouteIf available, see data belowInhalation (Dust/Mist) Exposure RouteIf available, see data belowInhalation (Vapor) Exposure RouteIf available, see data belowInhalation (Gas) Exposure RouteIf available, see data below

**Product Carcinogenicity Data** 

Oral Exposure RouteNo data availableDermal Exposure RouteNo data availableInhalation (Dust/Mist) Exposure RouteNo data availableInhalation (Vapor) Exposure RouteNo data availableInhalation (Gas) Exposure RouteNo data available

**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,	6381-92-6	-	-	-	-
N,N-1,2-ethanediylbis[N-(c					
arboxymethyl)-, disodium					
salt, dihydrate					

#### 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
If available, see data below
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
If available, see data below
Inhalation (Gas) Exposure Route
If available, see data below
If available, see data below
If available, see data below

### Product Germ Cell Mutagenicity invitro Data

No data available.

### Ingredient Germ Cell Mutagenicity invitro Data

If available, see data below

Chemical name	Test	Cell Strain	Reported	Exposure	Results	Key literature
			dose	time		references and
						sources for data
Potassium iodide (KI) (20 - 30%) CAS#: 7681-11-0	Cytogenetic analysis	Rat ascites tumor	500 mg/kg	None reported	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of Chemical Substances)
Glycine,	Cytogenetic	Hamster lung	200 mg/L	None	Positive test result for	RTECS (Registry

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EN / HGHS Page 11 / 16

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N,N-1,2-ethanediylbis	analysis		reported	mutagenicity	of Toxic Effects of
[N-(carboxymethyl)-,					Chemical
disodium salt,					Substances)
dihydrate					
(<1%)					
CAS#: 6381-92-6					

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

No data available

No data available

No data available

No data available

Ingredient Germ Cell Mutagenicity invivo Data

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

**Product Reproductive Toxicity Data** 

Oral Exposure Route
Dermal Exposure Route
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
Inhalation (Gas) Exposure Route
No data available
No data available
No data available
No data available

**Ingredient Reproductive 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%) CAS#: 7681-11-0		2700 mg/kg	39 weeks	Specific Developmental Abnormalities Endocrine System	RTECS (Registry of Toxic Effects of Chemical Substances)
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	Human TDLo	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 RouteIf available, see data belowInhalation (Vapor) Exposure RouteIf available, see data belowInhalation (Gas) Exposure RouteIf available, see data below

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Product Ecological Data
Aquatic toxicity

FishNo data availableCrustaceaNo data availableAlgaeNo data available

**Ingredient Ecological Data** 

**Aquatic toxicity** 

EN / HGHS Page 12 / 16

Fish		If available, see ingredient data below				
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	96 hours	Lepomis macrochirus	LC50	159 mg/L	Vendor SDS	

Crustacea			available, see ingredient data below			
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data	
Salt of N,N-Diethyl-p-Phenyl enediamine (1 - 5%) CAS#: -	48 Hours	Daphina magna	EC50	10.8 mg/L	Internal Data	

Algae		If available, see ingredient data below			
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	EC50	10 mg/L	Vendor SDS

### **Other Information**

Canadian Environmental Protection Act (CEPA) - Domestic Substances List (DSL): Environmentally Hazardous Substances Categorizations

### 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
Glycine, N,N-1,2-ethanediylbis [N-(carboxymethyl)-, disodium salt, dihydrate (<1%) CAS#: 6381-92-6	Estimation through BIOWIN v4.10 part of the Estimation Programs Interface (EPI) Suite™	None reported	None reported	Readily biodegradable

EN / HGHS Page 13/16

### **Bioaccumulation**

**Product Bioaccumulation Data** 

No data available.

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 Koc ~ 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>Transport Canada</u> Not regulated

TDG Not regulated

IATA Not regulated

EN / HGHS Page 14/16

IMDG Not regulated

**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

#### **Regulatory information**

**National Inventories** 

DSL/NDSL Complies

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

#### **International Inventories**

Complies **TSCA EINECS/ELINCS** Complies **ENCS** Complies Complies **IECSC** Complies **KECL PICCS** Complies **TCSI** Complies Complies **AICS** Complies **NZIoC** 

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

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

### Canada - CEPA - Mercury Containing Products

None

#### **International Regulations**

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

**Export Notification requirements** Not applicable

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

#### **Special Comments**

None

#### 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

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information

- See section 8 for more

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

NIOSH IDLH Immediately Dangerous to Life or Health

ACGIH (American Conference of Governmental Industrial Hygienists)

NDF no data

#### Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

MAC Maximum Allowable Concentration Ceiling Ceiling Limit Value

X 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\* Skin designation SKN+ Skin sensitization
RSP+ Respiratory sensitization \*\* Hazard Designation
C Carcinogen R Reproductive toxicant

M mutagen

Prepared By Hach Product Compliance Department

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**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.

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**End of Safety Data Sheet** 

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