

SAFETY DATA SHEET

Issue Date 30-Mar-2017 Revision Date 11-Aug-2016 Version 2 Page 1 / 18

1. IDENTIFICATION

Product identifier

Product Name Nitrate Nitrogen Standard Solution

Other means of identification

Product Code(s) 30749

Safety data sheet number M00757

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory reagent. Standard solution.

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 (970) 669-3050

Emergency telephone number

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

2. HAZARDS IDENTIFICATION

Classification

Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not Hazardous Not a dangerous substance or mixture according to the Globally Harmonized System

(GHS)

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements

The product contains no substances which at their given concentration, are considered to be hazardous to health

Other Information

Not applicable

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

Percent ranges are used where confidential product information is applicable.

Chemical Name	CAS No	Percent Range	HMRIC #
Potassium nitrate	7757-79-1	<0.1%	-
Chloroform	67-66-3	<0.01%	-

4. FIRST AID MEASURES

Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible).

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If symptoms persist, call a physician.

Skin contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. If symptoms persist, call a physician.

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms

persist, call a physician.

Ingestion IF SWALLOWED: Rinse Mouth. If symptoms persist, call a physician.

Self-protection of the first aider

Use personal protective equipment as required. Ensure that medical personnel are aware

of the material(s) involved and take precautions to protect themselves.

Most important symptoms and effects, both acute and delayed

Symptoms See Section 11: TOXICOLOGICAL INFORMATION.

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.

Flammable properties

Substance does not burn.

Specific hazards arising from the chemical

None reported.

Hazardous combustion products

This material will not burn.

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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

U.S. NoticeOnly 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.

EC NoticeOnly 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.

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, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Do not touch or walk through spilled material. Ventilate

affected area. Use personal protective equipment as required.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later

disposal.

Methods for cleaning upNeutralize spill if necessary. Soak up with inert absorbent material. Take up mechanically,

placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

Dispose of in accordance with local, state and federal regulations or laws.

Emergency Response Guide Number Not applicable

7. HANDLING AND STORAGE

Precautions for safe handling

Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly

labeled containers.

Flammability class Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Chloroform	TWA: 10 ppm	(vacated) TWA: 2 ppm	IDLH: 500 ppm
<0.01%		(vacated) TWA: 9.78 mg/m ³	STEL: 2 ppm 60 min
		Ceiling: 50 ppm	STEL: 9.78 mg/m ³ 60 min
		Ceiling: 240 mg/m ³	

Chemical Name	Alberta OEL	British Columbia OEL	Manitoba OEL	New Brunswick OEL	New Foundland & Labrador OEL
Chloroform <0.01%	TWA: 10 ppm TWA: 49 mg/m ³	TWA: 2 ppm R	TWA: 10 ppm	TWA: 10 ppm TWA: 49 mg/m ³	TWA: 10 ppm

Chemical Name	Northwest Territories OEL	Nova Scotia OEL	Nunavut OEL	Ontario TWA	Prince Edward Island OEL
Chloroform <0.01%	NDF	TWA: 10 ppm	NDF	TWA: 10 ppm	TWA: 10 ppm

Chemical Name	Quebec OEL	Saskatchewan OEL	Yukon OEL
Chloroform	TWA: 5 ppm	NDF	TWA: 10 ppm
<0.01%	TWA: 24.4 mg/m ³		TWA: 50 mg/m ³

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

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

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

smoke when using this product. Take off all contaminated clothing and wash it before reuse. Wash hands thoroughly after handling. Regular cleaning of equipment, work area

and clothing is recommended.

Environmental exposure controls

Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Gas Under Pressure Not classified according to GHS criteria

Appearance aqueous solution Color colorless

Odor None Odor threshold No data available

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

Molecular weight No data available

pH 5.5

Melting point/freezing point ~ 0 °C / 32 °F Estimation based on theoretical

calculation

Boiling point / boiling range ~ 100 °C / 212 °F Estimation based on theoretical

calculation

Evaporation rate 0.89 (water = 1)

Vapor pressure 23.777 mm Hg / 3.17 kPa at 25 °C / 77 °F Estimation based on theoretical

calculation

Vapor density (air = 1) 0.62 (air = 1)

Specific gravity (water = 1 / air = 1) 0.98

Partition Coefficient (n-octanol/water) Not applicable

Soil Organic Carbon-Water Partition

Coefficient

Not applicable

Autoignition temperature No data available

Decomposition temperature No data available

Dynamic viscosity No data available

Kinematic viscosity No data available

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	<u>Solubility classification</u> <u>Solubility</u>		Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

Other Information

Metal Corrosivity

Not classified as corrosive to metal according to GHS criteria

Steel Corrosion Rate No data available

Aluminum Corrosion Rate No data available

Volatile Organic Compounds (VOC) Content See ingredients information below.

Bulk density Not applicable

Explosive properties Not classified according to GHS criteria.

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Explosion data No data available

Upper explosion limit No data available

Lower explosion limit No data available

Flammable properties Not classified as flammable according to GHS criteria.

Flammability Limit in Air

Upper flammability limit: No data available

Lower flammability limit: No data available

Flash point No data available

Method No information available

Oxidizing properties Not classified according to GHS criteria.

Reactivity propeties Not classified as self-reactive, pyrophoric, self-heating or emitting

flammable gases in contact with water according to GHS criteria.

10. STABILITY AND REACTIVITY

Reactivity propeties

Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria

Chemical stability

Stable under recommended storage conditions.

Special dangers of the product

None reported

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Extremes of temperature and direct sunlight. Incompatible materials.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None known based on information supplied.

Explosive properties

Not classified according to GHS criteria.

Upper explosion limit No data available

Lower explosion limit No data available

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Autoignition temperature

No data available

Sensitivity to Static Discharge

None reported

Sensitivity to Mechanical Impact

None reported

11. TOXICOLOGICAL INFORMATION

NIOSH (RTECS) Number None reported

Information on Likely Routes of Exposure

Product Information	Product does not present an acute toxicity hazard based on
	known or supplied information.
Inhalation	No known effect based on information supplied.
Eye contact	No known effect based on information supplied.
Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.
Aggravated Medical Conditions	None known.
Toxicologically synergistic products	None known.
Toxicokinetics, metabolism and distribution	See ingredients information below.

Chemical Name	Toxicokinetics, metabolism and distribution
Chloroform	A specific liver enzyme converts chloroform into toxic metabolites resulting in hepatotoxicity.
(<0.01%)	
CAS#: 67-66-3	

Product Acute Toxicity Data

Oral Exposure Route No data available

No data available **Dermal Exposure Route**

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

No data available Inhalation (Gas) Exposure Route

Ingredient Acute Toxicity 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 nitrate	Rat	3015 mg/kg	None	None reported	IUCLID (The International
(<0.1%)	LD ₅₀		reported		Uniform Chemical Information
CAS#: 7757-79-1					Database)
Chemical Name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time	-	sources for data
Chloroform	Rat	300 - 695	None	None reported	RTECS (Registry of Toxic
(<0.01%)	LD ₅₀	mg/kg	reported		Effects of Chemical
CAS#: 67-66-3					Substances)
Chemical Name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time	_	sources for data
Potassium nitrate	Rat	10 mg/kg	None	Blood	RTECS (Registry of Toxic
(<0.1%)	TDLo		reported	Methemoglobinemia-Carboxyhe	Effects of Chemical

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CAS#: 7757-79-1				moglobin	Substances)
Chloroform (<0.01%) CAS#: 67-66-3	Man LD∟₀	2514 mg/kg	None reported	Kidney, Ureter, or Bladder Changes in tubules (including acute renal failure, acute tubular necrosis)	RTECS (Registry of Toxic Effects of Chemical Substances)

Dermal Exposure Route If available, see data below

Chemical Name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Chloroform	Rabbit	> 20000	None	None reported	RTECS (Registry of Toxic
(<0.01%)	LD50	mg/kg	reported		Effects of Chemical
CAS#: 67-66-3					Substances)

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

Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Chloroform	Rat	4.7702 mg/L	4 hours	None reported	RTECS (Registry of Toxic
(<0.01%)	LC ₅₀				Effects of Chemical
CAS#: 67-66-3					Substances)

Inhalation (Vapor) Exposure Route If available, see data below

Chemical Name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Chloroform	Human	171 mg/L	4 hours	Behavioral	RTECS (Registry of Toxic
(<0.01%)	TCL₀			Hallucinations, Distorted	Effects of Chemical
CAS#: 67-66-3				perceptions	Substances)

Inhalation (Gas) Exposure Route

No data available

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
Chloroform	Open Irritation	Rabbit	10 mg	24 hours	Mild skin irritant	RTECS (Registry of
(<0.01%)	Test					Toxic Effects of
CAS#: 67-66-3						Chemical Substances)

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
I	Chloroform	Standard Draize	Rabbit	20 mg	24 hours	Eye irritant	RTECS (Registry of
	(<0.01%)	Test				-	Toxic Effects of
	CAS#: 67-66-3						Chemical Substances)

Sensitization Information

Product Sensitization Data

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Skin Sensitization Exposure RouteNo data available.

Respiratory Sensitization Exposure Route No data available.

Ingredient Sensitization Data

Skin Sensitization Exposure Route No data available.

Respiratory Sensitization Exposure Route No data available.

Chronic Toxicity Information

Product Repeat Dose Toxicity Data

Oral Exposure Route No data available.

Dermal Exposure Route No data available.

Inhalation (Dust/Mist) Exposure Route No data available.

Inhalation (Vapor) Exposure Route No data available.

Inhalation (Gas) Exposure Route No data available.

Ingredient Repeat Dose Toxicity Data

Oral Exposure Route

If available, see data below

Oral Exposure Route					
Chemical Name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Potassium nitrate	Mouse	36000 mg/kg	90 days	Kidney, Ureter, or Bladder	RTECS (Registry of Toxic
(<0.1%)	TD_Lo		•	Evidence of thyroid	Effects of Chemical
CAS#: 7757-79-1				hypofunction, Changes in	Substances)
				thyroid weight	,
Chloroform	Rat	540 mg/kg	3 days	Biochemical	RTECS (Registry of Toxic
(<0.01%)	TD_Lo		•	Intermediary metabolism (other	Effects of Chemical
CAS#: 67-66-3				proteins)	Substances)
				Kidney, Ureter, or Bladder	,
				Changes in tubules (including	
				acute renal failure, acute tubular	
				necrosis)	
Chemical Name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Potassium nitrate	Rat	2250 mg/kg	150 days	Endocrine	RTECS (Registry of Toxic
(<0.1%)	TDLo		•	Goiter, Thyroid hypofunction	Effects of Chemical
CAS#: 7757-79-1				and weight loss	Substances)

Dermal Exposure Route

No data available

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

Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Chloroform	Rat	90 mg/L	90 days	Kidney, Ureter, or Bladder	RTECS (Registry of Toxic
(<0.01%)	TCLo			Changes in tubules (including	Effects of Chemical
CAS#: 67-66-3				acute renal failure, acute tubular	Substances)
				necrosis)	ŕ
				Liver	
				Hepatitis (hepatocellular	
				necrosis), diffuse	
				Nutritional and Gross	
				Metabolic	
				Weight loss or decreased	
				weight gain	

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Inhalation (Vapor) Exposure Route

If available, see data below

Chemical Name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Chloroform	Human	0.010 mg/L	365 days	Gastrointestinal	RTECS (Registry of Toxic
(<0.01%)	TCL₀		_	Nausea or vomiting	Effects of Chemical
CAS#: 67-66-3				Other changes	Substances)

Inhalation (Gas) Exposure Route

No data available

Chemical Name	CAS No	ACGIH	IARC	NTP	OSHA
Potassium nitrate	7757-79-1	-	Group 2A	-	X
Chloroform	67-66-3	A3	Group 2B	Reasonably	X
				Anticipated	

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)	

Product Carcinogenicity Data

No data available

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Ingredient Carcinogenicity Data

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

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 dose	Exposure time	Results	Key literature references and sources for data
Potassium nitrate	Gene conversion	Escherichia coli	5 mg/L	None	Positive test result for	RTECS (Registry
(<0.1%)	and mitotic			reported	mutagenicity	of Toxic Effects of
CAS#: 7757-79-1	recombination					Chemical

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Substances) No data available **Oral Exposure Route Dermal Exposure Route** No data available Inhalation (Dust/Mist) Exposure Route No data available No data available Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route No data available Ingredient Germ Cell Mutagenicity invivo Data No data available **Oral Exposure Route** No data available **Dermal Exposure Route** Inhalation (Dust/Mist) Exposure Route No data available No data available Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route No data available No data available **Oral Exposure Route Dermal Exposure Route** No data available Inhalation (Dust/Mist) Exposure Route No data available No data available Inhalation (Vapor) Exposure Route

Ingredient Reproductive Toxicity Data

Inhalation (Gas) Exposure Route

Oral Exposure Route

If available, see data below

No data available

Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Potassium nitrate	Rat	598 mg/kg	21 days	Effects on Newborn	RTECS (Registry of Toxic
(<0.1%)	TDLo			Behavioral	Effects of Chemical
CAS#: 7757-79-1					Substances)
Chemical Name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time	_	sources for data
Potassium nitrate	Rabbit	6505 mg/kg	4 days	Effects on Fertility	RTECS (Registry of Toxic
(<0.1%)			-	Stillbirth	Effects of Chemical
CAS#: 7757-79-1					Substances)

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

Based on the classification principles, not classified as hazardous

to the environment.

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Product Ecological Data

Aquatic toxicity

Fish No data available

Crustacea No data available

Algae No data available

Terrestrial toxicity

Soil No data available

Vertebrates No data available

Invertebrates No data available

Ingredient Ecological Data

Aquatic toxicity

Fish If available, see ingredient data below

FISN	rish in available, see ingredient data be						
Chemical Name	Chemical Name Exposure S		Endpoint type	Reported dose	Key literature references and sources for data		
Potassium nitrate (<0.1%) CAS#: 7757-79-1	96 hours	Gambusia affinis	LC50	22.5 mg/L	Vendor SDS		
Chloroform (<0.01%) CAS#: 67-66-3	96 hours	Oncorhynchus mykiss	LC50	18 mg/L	IUCLID (The International Uniform Chemical Information Database)		
Chemical Name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data		
Potassium nitrate (<0.1%) CAS#: 7757-79-1	96 hours	Poecilia reticulata	LC50	1378 mg/L	IUCLID (The International Uniform Chemical Information Database)		
Chloroform (<0.01%) CAS#: 67-66-3	96 hours	Lepomis macrochirus	LC50	18 mg/L	IUCLID (The International Uniform Chemical Information Database)		

Crustacea If available, see ingredient data below

<u>Oi doldoca</u>	ordstaced in available, see ingredient data belev				
Chemical Name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Potassium nitrate (<0.1%) CAS#: 7757-79-1	48 Hours	Daphnia magna	EC50	490 mg/L	Vendor SDS
Chloroform (<0.01%) CAS#: 67-66-3	48 Hours	Daphnia magna	EC50	29 mg/L	IUCLID (The International Uniform Chemical Information Database)
Chemical Name	Exposure	Species	Endpoint	Reported	Key literature references and
	time	-	type	dose	sources for data
Potassium nitrate (<0.1%) CAS#: 7757-79-1	72 hours	Daphnia magna	EC50	226 mg/L	EPA (United States Environmental Protection Agency)

Algae If available, see ingredient data below

	Chemical Name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Γ	Chloroform	48 hours	Desmodesmus subspicatus	EC ₅₀	560 mg/L	IUCLID (The International
	(<0.01%)		·			Uniform Chemical Information
1	CAS#: 67-66-3					Database)

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Terrestrial toxicity

Soil No data available

Vertebrates No data available

Invertebrates No data available

Other Information

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

Environmentally Hazardous Substances Categorizations

Chemical Name

Category

Persistent

Bioaccumulation

Inherently Toxic to
Aquatic Organisms

Chloroform

Organics

Yes

No

Yes

Persistence and degradability

None known.

(<0.01%) CAS#: 67-66-3

Product Biodegradability Data

If available, see ingredient data below.

Ingredient Biodegradability Data

Test data reported below

Bioaccumulation

None known.

Product Bioaccumulation Data No data available.

Ingredient Bioaccumulation Data

No data available

Additional information

Product Information

Partition Coefficient (n-octanol/water)

Not applicable

Ingredient Information

Chemical Name	Partition Coefficient (n-octanol/water)	Method
Chloroform	$log K_{ow} = 1.97$	No information available
(<0.01%)	-	
CAS#: 67-66-3		

Mobility

Mobility in soil: High mobility. If available, see ingredient data below.

Product Information

Soil Organic Carbon-Water Partition Coefficient

Not applicable

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Ingredient Information

Chemical Name	Soil Organic Carbon-Water Partition	Method
	Coefficient	
Chloroform (<0.01%) CAS#: 67-66-3	log K _{oc} = 1.71	No information available

Additional information

Water solubility

Product Information

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

Ingredient Information

Chemical Name	Water solubility	Water solubility	,	Water solubility
	classification		temperature °C	temperature °F
Potassium nitrate CAS#: 7757-79-1	Soluble	> 1000 mg/L	25 °C	77 °F
Chloroform CAS#: 67-66-3	Soluble	7450 mg/L	25 °C	77 °F

Other adverse effects

Contains a substance with an endocrine-disrupting potential.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastesDisposal should be in accordance with applicable regional, national, and local laws and

regulations.

Contaminated packaging Working in a well-ventilated area. Rinse three times with an appropriate solvent. Collect

rinsate and dispose of according to local, state, or federal regulations. Dispose of empty container as normal trash. In the US, rinsate from empty containers is classified as hazardous waste and should be disposed of at an E.P.A. approved facility. Rinsate from empty containers may contain sufficient product to require disposal as hazardous waste in countries other than the US. Improper disposal or reuse of this container may be dangerous and illegal. Disposal should be in accordance with applicable regional, national, and local

laws and regulations.

US EPA Waste Number U044

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Chloroform 67-66-3	U044	Included in waste streams: F024, F025, F039, K009, K010, K019, K020, K021, K029, K073, K116, K149, K150, K151, K158		U044

Chemical Name	RCRA - Halogenated	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
	Organic Compounds			

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Chloroform	Category I - Volatiles	-	Toxic waste	Toxic waste
67-66-3			waste number F025	waste number K021
			Waste description:	Waste description: Aqueous
			Condensed light ends, spent	spent antimony catalyst
			filters and filter aids, and	waste from fluoromethanes
			spent desiccant wastes from	production.
			the production of certain	-
			chlorinated aliphatic	
			hydrocarbons, by free	
			radical catalyzed processes.	
			These chlorinated aliphatic	
			hydrocarbons are those	
			having carbon chain lengths	
			ranging from one to and	
			including five, with varying	
			amounts and positions of	
			chlorine substitution.	

Special instructions for disposal

Dispose of material in an E.P.A. approved hazardous waste facility.

14. TRANSPORT INFORMATION

U.S. DOT Not regulated

TDG Not regulated

IATA Not regulated

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

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

International Inventories

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

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

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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

SARA 313

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

Chemical Name	SARA 313 - Threshold Values %
Potassium nitrate (CAS #: 7757-79-1)	1.0
Chloroform (CAS #: 67-66-3)	0.1

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (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)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Chloroform 67-66-3	10 lb	Х	Х	Х

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

Chemic	al Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Chlor	oform	10 lb 1 lb	10 lb	RQ 10 lb final RQ
67-	66-3			RQ 4.54 kg final RQ RQ 1 lb
				final RQ
				RQ 0.454 kg final RQ

U.S. - Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues

Chemical Name	U.S Department of Homeland Security - Chemical Facility
	Anti-Terrorism Standards (CFATS) - Security Issues
Potassium nitrate (<0.1%) CAS#: 7757-79-1	Theft - Explosives/Improvised Explosive Device Precursors
Chloroform (<0.01%) CAS#: 67-66-3	Release - Toxic

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
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Chloroform (CAS #: 67-66-3)	Carcinogen	
	Developmental	

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium nitrate 7757-79-1	Х	X	Х
Chloroform 67-66-3	X	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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 - 0	Flammability - 0	Instability - 0	Physical and Chemical Properties -
HMIS	Health hazards - 0	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 Immediately Dangerous to Life or Health

ACGIH (American Conference of Governmental Industrial Hygienists)

NDF no data

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

MAC	·	STEL	STEL (Short Term Exposure Limit)
	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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Issue Date 30-Mar-2017

Revision Date 11-Aug-2016

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