

SAFETY DATA SHEET

Issue Date 12-Jun-2019 **Revision Date** 12-Jun-2019 **Version** 2.2 **Page** 1 / 16

1. IDENTIFICATION

Product identifier

Product Name NitraVer® X Nitrogen, Nitrate Reagent B

Other means of identification

Product Code(s) 2605546

Safety data sheet number M00411

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory reagent.

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

2. HAZARDS IDENTIFICATION

Classification

Regulatory Status

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

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2A
Respiratory sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)	Category 1

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Signal word

Danger

EN / AGHS Page 1/16

Product Name NitraVer® X Nitrogen, Nitrate Reagent B

Revision Date 12-Jun-2019

Page 2/16



Hazard statements

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H370 - Causes damage to organs

H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary statements

P270 - Do not eat, drink or smoke when using this product

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330 - Rinse mouth

P501 - Dispose of contents/ container to an approved waste disposal plant

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

P285 - In case of inadequate ventilation wear respiratory protection

P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor

P405 - Store locked up

P314 - Get medical advice/attention if you feel unwell

Other Hazards Known

Causes mild skin irritation

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

<u>Mixture</u>

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No.	Percent Range	HMRIC #
Quartz	14808-60-7	60 - 70%	-
Urea	57-13-6	30 - 40%	-
Sodium metabisulfite	7681-57-4	1 - 5%	
2,7-Naphthalenedisulfonic acid, 4,5-dihydroxy-, disodium salt	129-96-4	1 - 5%	ı

4. FIRST AID MEASURES

Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance.

EN / AGHS Page 2/16

Product Name NitraVer® X Nitrogen, Nitrate Reagent B Revision Date 12-Jun-2019

Page 3/16

Inhalation May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration.

Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a physician. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical

attention if irritation develops and persists.

Skin contact Wash with soap and water. May cause an allergic skin reaction. Wash off immediately with

plenty of water for at least 15 minutes. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. May produce an allergic reaction.

Get immediate medical advice/attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Most important symptoms and effects, both acute and delayed

Symptoms May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or

wheezing. Itching. Rashes. Hives. Burning sensation.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. 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

Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact.

Hazardous combustion products Sodium oxides. Sulfur oxides. Carbon monoxide, Carbon dioxide.

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

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.

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

EN / AGHS Page 3/16

Product Name NitraVer® X Nitrogen, Nitrate Reagent B

Revision Date 12-Jun-2019

Page 4 / 16

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

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 sectionsSee 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 with

skin, eyes or clothing. Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated

clothing and shoes.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up.

Flammability class Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Quartz	TWA: 0.025 mg/m ³	TWA: 50 μg/m ³	IDLH: 50 mg/m ³ respirable
CAS#: 14808-60-7	respirable particulate matter	(vacated) TWA: 0.1 mg/m ³	dust
		:	TWA: 0.05 mg/m ³
			respirable dust
Sodium metabisulfite CAS#: 7681-57-4	TWA: 5 mg/m ³	(vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Respiratory protectionNo protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

EN / AGHS Page 4/16

Product Name NitraVer® X Nitrogen, Nitrate Reagent B

Revision Date 12-Jun-2019

Page 5 / 16

Hand Protection Wear suitable gloves.

Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear Eye/face protection

safety glasses with side-shields.

Skin and body protection Wear suitable protective clothing.

General Hygiene Considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Remove and wash contaminated clothing

and gloves, including the inside, before re-use.

Local authorities should be advised if significant spillages cannot be contained. Do not **Environmental exposure controls**

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 White to brown Color Odor None Odor threshold No data available

Remarks • Method Property Values

Molecular weight No data available

pН No data available

Melting point/freezing point No data available

Boiling point / boiling range No data available

Not applicable **Evaporation rate**

Vapor pressure Not applicable

Vapor density (air = 1) Not applicable

Specific gravity (water = 1 / air = 1) 1.0400

log Kow ~ -0.35 Partition Coefficient (n-octanol/water)

Soil Organic Carbon-Water Partition

Coefficient

No data available

Not applicable

log Koc ~ 0

Autoignition temperature No data available

Decomposition temperature

Kinematic viscosity Not applicable

Solubility(ies)

Dynamic viscosity

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Slightly soluble	> 0.1 mg/L	25 °C / 77 °F

EN / AGHS 5/16 Page

Product Name NitraVer® X Nitrogen, Nitrate Reagent B

Revision Date 12-Jun-2019

Page 6 / 16

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 Rate
Aluminum Corrosion Rate

Not applicable Not applicable

Volatile Organic Compounds (VOC) Content

Not applicable

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Quartz	14808-60-7	No data available	-
Urea	57-13-6	Not applicable	Χ
Sodium metabisulfite	7681-57-4	Not applicable	-
2,7-Naphthalenedisulfonic acid, 4,5-dihydroxy-, disodium salt	129-96-4	No data available	-

Explosive properties

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point Not applicable

Flammability Limit in Air

Upper flammability limitNo data availableLower flammability limitNo data available

Oxidizing properties No data available.

Bulk density No data available

10. STABILITY AND REACTIVITY

Reactivity

Not applicable.

Chemical stability

Stable under normal conditions.

Explosion data

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

Possibility of Hazardous Reactions

None under normal processing.

EN / AGHS Page 6/16

Product Name NitraVer® X Nitrogen, Nitrate Reagent B

Revision Date 12-Jun-2019

Page 7 / 16

Hazardous polymerization

None under normal processing.

Conditions to avoid

None known based on information supplied.

Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide. Nitrogen oxides. Sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Inhalation May cause sensitization in susceptible persons. May cause irritation of respiratory tract.

Eye contact Causes serious eye irritation. May cause redness, itching, and pain.

Skin contact Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

May cause irritation. Prolonged contact may cause redness and irritation.

Ingestion May cause additional affects as listed under "Inhalation". Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed.

Symptoms Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

Coughing and/ or wheezing. May cause redness and tearing of the eyes.

Acute toxicity

Harmful if swallowed

Product Acute Toxicity Data

No data available.

Ingredient Acute Toxicity Data

Test data reported below.

Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Quartz (60 - 70%) CAS#: 14808-60-7	Rat LD₅o	500 mg/kg	None reported	None reported	IUCLID (The International Uniform Chemical Information Database)
Sodium metabisulfite (1 - 5%) CAS#: 7681-57-4	Rat LD50	500 mg/kg	None reported	None reported	Vendor SDS
2,7-Naphthalenedisul fonic acid, 4,5-dihydroxy-, disodium salt (1 - 5%) CAS#: 129-96-4	Rat LD₅o	> 5000 mg/kg	None reported	None reported	Vendor SDS

Dermal Exposure Route

EN / AGHS Page 7/16

Product Name NitraVer® X Nitrogen, Nitrate Reagent B Revision Date 12-Jun-2019

Page 8 / 16

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Sodium metabisulfite	Rat	2000 mg/kg	None	None reported	RTECS (Registry of Toxic
(1 - 5%)	LD ₅₀		reported		Effects of Chemical
CAS#: 7681-57-4					Substances)

Inhalation (Dust/Mist) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium metabisulfite	Rat	2.01 mg/L	4 hours	None reported	ERMA (New Zealands
(1 - 5%)	LC50				Environmental Risk
CAS#: 7681-57-4					Management Authority)

Unknown Acute Toxicity

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

Acute Toxicity Estimations (ATE)

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	735.40 mg/kg			
ATEmix (dermal)	information available			
ATEmix (inhalation-dust/mist)	151.13 mg/L			
ATEmix (inhalation-vapor)	No information available			
ATEmix (inhalation-gas)	No information available			

Skin corrosion/irritation

May cause skin irritation.

Product Skin Corrosion/Irritation Data

No data available.

Ingredient Skin Corrosion/Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Urea (30 - 40%) CAS#: 57-13-6	Standard Draize Test	Human	22 mg	72 hours	Mild skin irritant	RTECS (Registry of Toxic Effects of Chemical Substances)
2,7-Naphthalenedisul fonic acid, 4,5-dihydroxy-, disodium salt (1 - 5%) CAS#: 129-96-4	Existing human experience	Human	None reported	None reported	Skin irritant	No information available

<u>Serious eye damage/irritation</u>
Classification based on data available for ingredients. Irritating to eyes.

Product Serious Eye Damage/Eye Irritation Data

No data available.

Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported	Exposure	Results	Key literatu	re
EN / AGHS			,			Page	8 / 16

Product Name NitraVer® X Nitrogen, Nitrate Reagent B Revision Date 12-Jun-2019

Page 9/16

			dose	time		references and sources for data
Urea (30 - 40%) CAS#: 57-13-6	OECD Test 405: Acute Eye Corrosion/Irritation	Rabbit	0.1 mL	Single application	Mild eye irritant	ECHA (The European Chemicals Agency)
Sodium metabisulfite (1 - 5%) CAS#: 7681-57-4	Standard Draize Test	Rabbit	107 mg	None reported	Corrosive to eyes	RTECS (Registry of Toxic Effects of Chemical Substances)
2,7-Naphthalenedisul fonic acid, 4,5-dihydroxy-, disodium salt (1 - 5%) CAS#: 129-96-4	Existing human experience	Human	None reported	None reported	Eye irritant	No information available

Respiratory or skin sensitization

May cause sensitization by inhalation.

Product Sensitization Data

No data available.

Ingredient Sensitization Data

Test data reported below.

Respiratory Sensitization Exposure Route

Chemical name	Test method	Species	Results	Key literature references and sources for data
Sodium metabisulfite	Based on human	Human	Confirmed to be a respiratory	GESTIS (Information System on
(1 - 5%)	experience		sensitizer	Hazardous Substances of the
CAS#: 7681-57-4				German Social Accident Insurance)

STOT - single exposure

Based on the classification criteria of the Globally Harmonized System as adopted in the country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). Causes damage to organs if swallowed.

Product Specific Target Organ Toxicity Single Exposure Data

No data available.

Ingredient Specific Target Organ Toxicity Single Exposure Data

No data available.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Product Specific Target Organ Toxicity Repeat Dose Data

No data available.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Test data reported below.

Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium metabisulfite (1 - 5%) CAS#: 7681-57-4	Rat TD∟₀	75 mg/kg	15 days	Biochemical Enzyme inhibition, induction, or change in blood or tissue levels (phosphatases and	

EN / AGHS Page 9/16

Product Name NitraVer® X Nitrogen, Nitrate Reagent B Revision Date 12-Jun-2019

Page 10 / 16

dehydrogenases)
Kidney, Ureter, or Bladder
Other changes in urine
composition

Dermal Exposure Route

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Urea	Rat	3024 mg/kg	28 days	Liver	RTECS (Registry of Toxic
(30 - 40%)	TDLo		-	Changes in liver weight	Effects of Chemical
CAS#: 57-13-6				Endocrine	Substances)
				Changes in thymus weight	·
				Chronic	
				Changes in testicular weight	

Inhalation (Dust/Mist) Exposure Route

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Urea	Rat	288 mg/m ³	17 weeks	Kidney, Ureter, or Bladder	RTECS (Registry of Toxic
(30 - 40%)	TCLo			Other changes in urine	Effects of Chemical
CAS#: 57-13-6				composition	Substances)
				Nutritional and Gross	
				Metabolic	
				Changes in chlorine	

Carcinogenicity

Based on available data, the classification criteria are not met.

Product Carcinogenicity Data

No data available.

Ingredient Carcinogenicity Data

Test data reported below.

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Quartz	14808-60-7	A2	Group 1	Known	X
Urea	57-13-6	-	-	-	-
Sodium metabisulfite	7681-57-4	-	Group 3	-	-
2,7-Naphthalenedisulfonic	129-96-4	-	-	=	-
acid, 4,5-dihydroxy-,					
disodium salt					

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	A2 - Suspected Human Carcinogen		
IARC (International Agency for Research on Cancer)	Group 1 - Carcinogenic to Humans		
	Group 3 - Not classifiable as a human		
	carcinogen		
NTP (National Toxicology Program)	Known - Known Carcinogen		
OSHA (Occupational Safety and Health Administration of the US Department of	X - Present		
Labor)			

Oral Exposure Route

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Urea	Rat	2250 mg/kg	1.0 years	Negative results for	ECHA (The European
(30 - 40%)	NOAEL		-	carcinogenicity	Chemicals Agency)

EN / AGHS Page 10/16

Product Name NitraVer® X Nitrogen, Nitrate Reagent B Revision Date 12-Jun-2019

Page 11 / 16

CAS#: 57-13-6	
---------------	--

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Product Germ Cell Mutagenicity invitro Data

No data available.

Ingredient Germ Cell Mutagenicity invitro Data

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and
						sources for data
Urea	DNA damage	Mouse lymphoma	43000 mg/L	None	Positive test result for	ECHA (The
(30 - 40%)				reported	mutagenicity	European
CAS#: 57-13-6						Chemicals
						Agency)
Sodium metabisulfite	Cytogenetic	Hamster ovary	0.18 mg/L	None	Positive test result for	RTECS (Registry
(1 - 5%)	analysis			reported	mutagenicity	of Toxic Effects of
CAS#: 7681-57-4	•					Chemical
						Substances)

Product Germ Cell Mutagenicity invivo Data

No data available.

Ingredient Germ Cell Mutagenicity invivo Data

Test data reported below.

Oral Exposure Route

Chemical name	Test	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Urea (30 - 40%) CAS#: 57-13-6	Chromosomal abberation	Mouse	500 mg	5 days	Inconclusive test result for mutagenicity	ECHA (The European Chemicals Agency)

Reproductive toxicity

Based on available data, the classification criteria are not met.

Product Reproductive Toxicity Data

No data available.

Ingredient Reproductive Toxicity Data

Test data reported below.

Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Urea (30 - 40%) CAS#: 57-13-6	Rat NOAEL	> 1000 mg/kg	Single generation	No reproductive or developmental toxic effects observed	ECHA (The European Chemicals Agency)
Sodium metabisulfite (1 - 5%) CAS#: 7681-57-4	Rat TD∟₀	20000 mg/kg	None reported	Effects on Newborn Stillbirth	RTECS (Registry of Toxic Effects of Chemical Substances)

Aspiration hazard

EN / AGHS Page 11/16

Product Name NitraVer® X Nitrogen, Nitrate Reagent B

Revision Date 12-Jun-2019

Page 12 / 16

Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Ecotoxicity Based on available data, the classification criteria are not met.

Unknown aquatic toxicity 0% of the mixture consists of components(s) of unknown hazards to the aquatic

environment.

Product Ecological Data

Aquatic Acute Toxicity No data available.

Aquatic Chronic Toxicity

No data available.

Ingredient Ecological Data

Aquatic Acute Toxicity

Test data reported below.

Fish

Chemical name	Exposure	Species	Endpoint	Reported	Key literature references and
	time		type	dose	sources for data
Sodium metabisulfite (1 - 5%) CAS#: 7681-57-4	96 hours	Salmo gairdneri	LC ₅₀	15 mg/L	IUCLID (The International Uniform Chemical Information Database)

Algae

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sodium metabisulfite (1 - 5%) CAS#: 7681-57-4	96 hours	Scenedesmus subspicatus	EC ₅₀	40 mg/L	IUCLID (The International Uniform Chemical Information Database)

Aquatic Chronic Toxicity

No data available.

Persistence and degradability

Product Biodegradability Data

No data available.

Bioaccumulation

Product Bioaccumulation Data

No data available.

Partition Coefficient (n-octanol/water) log K_{ow} ~ -0.35

Mobility

Soil Organic Carbon-Water Partition Coefficient $\log K_{oc} \sim 0$

Other adverse effects

No information available.

EN / AGHS Page 12/16

Product Name NitraVer® X Nitrogen, Nitrate Reagent B

Revision Date 12-Jun-2019

Page 13/16

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

products

Waste from residues/unused

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

Special instructions for disposal Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate.

Open cold water tap completely, slowly pour the reacted material to the drain. Flush system

with plenty of water.

14. TRANSPORT INFORMATION

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 **ENCS** Complies **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

PICCS - Philippines Inventory of Chemicals and Chemical Substances

EN / AGHS Page 13/16

Product Name NitraVer® X Nitrogen, Nitrate Reagent B

Revision Date 12-Jun-2019

Page 14/16

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

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
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)

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

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Quartz (CAS #: 14808-60-7)	Carcinogen

WARNING: This product can expose you to chemicals including Quartz, which is known to the State of California to cause cancer.

For more information, go to http://www.P65Warnings.ca.gov

U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Quartz 14808-60-7	X	X	Х
Sodium metabisulfite 7681-57-4	X	X	X

U.S. EPA Label Information

Chemical name	FIFRA FDA	
Urea	180.0950	21 CFR 184.1923
Sodium metabisulfite	-	21 CFR 182.3766

EN / AGHS Page 14/16

Product Name NitraVer® X Nitrogen, Nitrate Reagent B

Revision Date 12-Jun-2019

Page 15 / 16

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

Special Comments

None

Additional information

Global Automotive Declarable Substance List (GADSL)

Chemical name	Global Automotive Declarable Substance List Classifications	Global Automotive Declarable Substance List Thersholds
Quartz 14808-60-7	Declarable Substance (FA)	0.0 %
Sodium metabisulfite 7681-57-4	Declarable Substance (LR) Prohibited Substance (LR)	0.0 %

NFPA and HMIS Classifications

NFPA	Health hazards - 3	Flammability - 0	Instability - 0	Physical and chemical properties -
HMIS	Health hazards - * - 2	Flammability - 0	Physical hazards - 0	Personal protection - X

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

NIOSH IDLH Immediately Dangerous to Life or Health

ACGIH 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

Issue Date 12-Jun-2019

Revision Date 12-Jun-2019

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.

EN / AGHS Page 15/16

Product Name NitraVer® X Nitrogen, Nitrate Reagent B

Revision Date 12-Jun-2019

Page 16 / 16

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.

HACH COMPANY©2019

End of Safety Data Sheet

EN / AGHS Page 16/16