

# **SAFETY DATA SHEET**

Be Right<sup>™</sup>

Issue Date 14-Sep-20	20 Revision Date 17-Jan-2024	Version 4.1	<b>Page</b> 1 / 17		
	1. IDENTIFICATION				
Product identifier Product Name	ZincoVer <sup>®</sup> 5 Zinc Reagent				
Other means of identific Product Code(s)	ation2106669				
Safety data sheet numb	er M00048				
UN/ID no	UN1588				
Recommended use of the	ne chemical and restrictions on use				
Recommended Use	Laboratory reagent. Determination	n of zinc.			
Uses advised against	Consumer use.				
Restrictions on use	For Laboratory Use Only.				
Details of the supplier of the safety data sheet					
Manufacturer Address Hach Company, P.O.Box	389, Loveland, CO 80539, USA, +1(970) 669-3	050			

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#### 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
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Aquatic Acute Toxicity	Category 1
Chronic aquatic toxicity	Category 1

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

Signal word

EN / AGHS

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Danger



#### Hazard statements

- H302 Harmful if swallowed
- H311 Toxic in contact with skin
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H332 Harmful if inhaled
- H360 May damage fertility or the unborn child
- H370 Causes damage to organs
- H372 Causes damage to organs through prolonged or repeated exposure
- H410 Very toxic to aquatic life with long lasting effects
- H335 May cause respiratory irritation

#### **Precautionary statements**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- P361 + P364 Take off immediately all contaminated clothing and wash it before reuse
- P405 Store locked up
- P501 Dispose of contents/ container to an approved waste disposal plant
- P271 Use only outdoors or in a well-ventilated area
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P332 + P313 If skin irritation occurs: Get medical attention
- P362 Take off contaminated clothing and wash before reuse
- P280 Wear protective gloves, protective clothing, eye protection, and 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 attention
- P201 Obtain special instructions before use
- P308 + P313 IF exposed or concerned: Get medical advice/attention
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P270 Do not eat, drink or smoke when using this product
- P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor
- P273 Avoid release to the environment
- P391 Collect spillage
- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P330 Rinse mouth

## Other Hazards Known

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable

#### <u>Mixture</u>

Common	name
Chemical	Family
Chemical	nature

No information available. Mixture. Mixture of inorganic salts.

#### Percent ranges are used where confidential product information is applicable.

	Percent Range	CAS No	Chemical name
-	50 - 60%	1332-77-0	Boron potassium oxide (B4K2O7)
-	10 - 20%	1303-86-2	Boron oxide (B2O3)
-	1 - 5%	151-50-8	Potassium cyanide
_	10 - 20%	1303-86-2	Boron oxide (B2O3)

## **4. FIRST AID MEASURES**

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

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.		
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur. If breathing has stopped, give artificial respiration. Get medical attention immediately. If symptoms persist, call a physician.		
Eye contact	Get immediate medical advice/attention. 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. Do not rub affected area.		
Skin contact	Get immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.		
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. 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 direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing.		
Most important symptoms and effe	cts, both acute and delayed		
Symptoms Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.			
Indication of any immediate medica	al attention and special treatment needed		
Note to physicians Treat symptomatically.			
	5. FIRE-FIGHTING MEASURES		
	5. FIRE-FIGHTING MEASURES		
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Unsuitable Extinguishing Media	Caution: Use of water spray when fighting fire may be inefficient.		
Specific hazards arising from the chemical	No information available.		
Hazardous combustion products	Cyanide compounds. Nitrogen oxides. Potassium oxides. Boron compounds.		
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. Notice Personal precautions, protective ed	Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.
	<u>1p</u>
Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid generation of dust. Do not breathe dust.
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 containm	ent and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
Reference to other sections	See section 8 for more information. See section 13 for more information.

## 7. HANDLING AND STORAGE

#### Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid generation of dust.

#### 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

Precautions for safe handling

#### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Boron potassium oxide (B4K2O7) CAS#: 1332-77-0	STEL: 6 mg/m <sup>3</sup> inhalable particulate matter TWA: 2 mg/m <sup>3</sup> inhalable particulate matter	NDF	NDF

Boron oxide (B2O3)	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup>	IDLH: 2000 mg/m <sup>3</sup>
CAS#: 1303-86-2		(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Potassium cyanide	S*	TWA: 5 mg/m <sup>3</sup>	IDLH: 25 mg/m <sup>3</sup> CN
CAS#: 151-50-8	Ceiling: 5 mg/m <sup>3</sup> CN	(vacated) TWA: 5 mg/m <sup>3</sup>	Ceiling: 4.7 ppm CN 10 min
		*	Ceiling: 5 mg/m <sup>3</sup> CN 10 min
Appropriate engineering controls Engineering Controls	Showers Eyewash stations Ventilation systems.		
Individual protection measures, su	ch as personal protective equi	inment	
Respiratory protection	No protective equipment is ne	eded under normal use condition enced, ventilation and evacuat	
Hand Protection	Wear suitable gloves. Impervious gloves. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1:2016. Barrier creams may help to protect the exposed areas of skin.		
Eye/face protection	Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear safety glasses with side-shields.		
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.		
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. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid breathing dust/fume/gas/mist/vapors/spray.		
Environmental exposure controls	Local authorities should be ad into any sewer, on the ground		nnot be contained. Do not allow
Thermal hazards	None under normal processing.		

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance Odor	Solic powder Odorless		Color Odor threshold	purple Not applicable		
Property_		Values		Remarks • Method		
Molecular weight	t	Not applicable				
рН		8.7		5% Solution		
Melting point / freezing point		155 °C / 311	155 °C / 311 °F			
Initial boiling point and boiling range		No data availabl	No data available			
Evaporation rate		Not applicable				
Vapor pressure		Not applicable				
Relative vapor de	ensity	No data availat	ble			

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Specific gravity - VALUE 1	1.83
Partition coefficient	log Kow ~ -1.6
Soil Organic Carbon-Water Partition Coefficient	log K <sub>oc</sub> ~ 0.07
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
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

#### **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)
Boron potassium oxide (B4K2O7)	1332-77-0	No data available	-
Boron oxide (B2O3)	1303-86-2	No data available	-
Potassium cyanide	151-50-8	Not applicable	-

#### **Explosive properties**

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

## **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.

#### **Hazardous polymerization**

Hazardous polymerization does not occur.

#### Conditions to avoid

Excessive heat.

#### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

#### Hazardous decomposition products

Cyanide. Boron compounds. Nitrogen oxides. Potassium oxide. Contact with acids/acid fumes releases toxic cyanide gas.

## **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

#### Product Information

Inhalation	May cause irritation of respiratory tract. Harmful by inhalation.
Eye contact	Irritating to eyes. Causes serious eye irritation.
Skin contact	Causes skin irritation. Toxic in contact with skin.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed.
Symptoms	Redness. May cause redness and tearing of the eyes. Coughing and/ or wheezing.

#### Acute toxicity

Harmful if swallowed Toxic in contact with skin Harmful if inhaled

#### Mixture Test data reported below.

Oral Exposure Route

Endpoint type	Reported dose	Toxicological	Key literature references and sources for data
Rat	383 mg/kg	effects	Outside testing
LD50		Behavioral	
		Loss of righting	
		reflex	
		Sedation	
		Tonic convulsions	
		Eye	
		Ptosis	
		Gastrointestinal	
		Enteritis in the	
		large intestine	
		Enteritis in the	
		small intestine	
		Lungs, Thorax,	
		or Respiration	
		Congestion of the	
		lungs	
		Respiratory	
		depression	
		Infection of the	
		lungs	
		Skin and	
		Appendages	
		Piloerection	

## 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
Boron potassium oxide (B4K2O7) (50 - 60%) CAS#: 1332-77-0	Rat LD₅o	3500 mg/kg	None reported	None reported	Vendor SDS
Boron oxide (B2O3) (10 - 20%) CAS#: 1303-86-2	Rat LD <sub>50</sub>	3150 mg/kg	None reported	None reported	RTECS
Potassium cyanide (1 - 5%) CAS#: 151-50-8	Rat LD <sub>50</sub>	5 mg/kg	None reported	None reported	GESTIS

### **Dermal Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Boron potassium oxide (B4K2O7) (50 - 60%) CAS#: 1332-77-0	Rat LD <sub>50</sub>	> 2000 mg/kg	None reported	None reported	Vendor SDS
Potassium cyanide (1 - 5%) CAS#: 151-50-8	Rabbit LD₅₀	22.3 mg/kg	None reported	None reported	Vendor SDS

## Inhalation (Dust/Mist) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Potassium cyanide (1 - 5%)	Rat LC₅₀	0.04 mg/L	4 hours	None reported	ERMA

	CAS#: 151-50-8			
_				

#### 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)	No information available
ATEmix (dermal)	641.80 mg/kg
ATEmix (inhalation-dust/mist)	2.00 mg/l
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

#### Skin corrosion/irritation

Classification based on data available for ingredients. Irritating to skin.

#### Mixture

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
Boron potassium oxide (B4K2O7) (50 - 60%) CAS#: 1332-77-0	Standard Draize Test	Rabbit	500 mg	4 hours	Skin irritant	ECHA
Boron oxide (B2O3) (10 - 20%) CAS#: 1303-86-2	Standard Draize Test	Rabbit	500 mg	24 hours	Mild skin irritant	ECHA

#### Serious eye damage/irritation

Classification based on data available for ingredients. Irritating to eyes.

#### Mixture

No data available.

#### Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Boron potassium oxide (B4K2O7) (50 - 60%) CAS#: 1332-77-0	OECD Test 405: Acute Eye Corrosion/Irritation	Rabbit	100 mg	24 hours	Eye irritant	ECHA
Boron oxide (B2O3) (10 - 20%) CAS#: 1303-86-2	Standard Draize Test	Rabbit	100 mg	24 hours	Mild eye irritant	ECHA

#### Respiratory or skin sensitization

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

#### Mixture

No data available.

**Ingredient Sensitization Data** 

No data available.

#### 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. Causes damage to organs in contact with skin. May cause respiratory irritation.

#### Mixture

No data available.

#### **Ingredient Specific Target Organ Toxicity Single 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
Potassium cyanide	Man	13.7 mg/kg	None reported	Behavioral	RTECS
(1 - 5%)	TDLo			Coma	
CAS#: 151-50-8				Convulsions or effect on seizure	
				threshold	
				Blood	
				Metabolic acidosis	

#### STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

#### Mixture

No data available.

#### Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Test data reported below.

#### Oral Exposure Route

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Potassium cyanide	Rat	4.5 mg/kg	15 days	Nutritional and Gross	RTECS
(1 - 5%)	TDLo		-	Metabolic	
CAS#: 151-50-8				Evidence of thyroid	
				hypofunction, Changes in thyroid	
				weight	

#### **Carcinogenicity**

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

Mixture

No data available.

#### Ingredient Carcinogenicity Data

No data available.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Boron potassium oxide	1332-77-0	-	-	-	-
(B4K2O7)					
Boron oxide (B2O3)	1303-86-2	-	-	-	-
Potassium cyanide	151-50-8	-	-	-	-

#### 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	Does not apply

#### Germ cell mutagenicity

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

#### Mixture invitro Data

No data available.

#### Substance invitro Data

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Boron oxide (B2O3) (10 - 20%) CAS#: 1303-86-2	Mutation in microorganisms	Mammalian cells - not specified	None reported	None reported	Negative	RTECS
Potassium cyanide (1 - 5%) CAS#: 151-50-8	DNA inhibition	Mouse lymphocyte	1 mmol/L	None reported	Positive test result for mutagenicity	RTECS

#### Mixture invivo Data

No data available.

## Substance invivo Data

No data available.

#### **Reproductive toxicity**

Classification based on data available for ingredients. Contains a known or suspected reproductive toxin. The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

#### Mixture

No data available.

#### Ingredient Reproductive Toxicity Data

Test data reported below.

#### **Oral Exposure Route**

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Potassium cyanide	Domestic	1767 mg/kg	12 weeks	Effects on Newborn	RTECS
(1 - 5%)	mammal - Not			Other neonatal measures or	
CAS#: 151-50-8	specified			effects	
	TDLo			Weaning or lactation index (e.g.	
				# alive at weaning per # alive at	
				day 4)	

#### Aspiration hazard

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

#### **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

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

#### <u>Mixture</u>

#### Aquatic Acute Toxicity No data available.

#### Aquatic Chronic Toxicity No data available.

Substance

## **Aquatic Acute Toxicity**

Test data reported below.

Fish

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Potassium cyanide (1 - 5%) CAS#: 151-50-8	96 hours	None reported	LC <sub>50</sub>	0.068 mg/L	GESTIS

#### Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Boron oxide (B2O3) (10 - 20%) CAS#: 1303-86-2	48 Hours	Daphnia magna	LC50	370 mg/L	IUCLID
Potassium cyanide (1 - 5%) CAS#: 151-50-8	48 Hours	None reported	LC50	0.25 mg/L	GESTIS

## Aquatic Chronic Toxicity

No data available.

## Persistence and degradability

#### Mixture

No data available.

Bioaccumulation MATERIAL DOES NOT BIOACCUMULATE Mixture No data available.

#### Partition coefficient

**Mobility** 

Soil Organic Carbon-Water Partition Coefficient

## Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

log Kow ~ -1.6

log Koc ~ 0.07

#### Waste treatment methods

Waste from residues/unused

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

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products

environmental legislation.

P030

Contaminated packaging

US EPA Waste Number

Chemical name	RCRA	<b>RCRA - Basis for Listing</b>	RCRA - D Series Wastes	RCRA - U Series Wastes
Potassium cyanide	P098	Included in waste	-	-
151-50-8		streams: F007, F008,		
		F009, F010, F011		

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Potassium cyanide	-	P098	-	-
151-50-8		P030		

**Special instructions for disposal** Dispose of material in an E.P.A. approved hazardous waste facility.

Do not reuse empty containers.

## **14. TRANSPORT INFORMATION**

DOT UN/ID no Proper shipping name DOT Technical Name Transport hazard class(es) Packing Group Emergency Response Guide Number	UN1588 Cyanides, inorganic, solid, n.o.s. Potassium cyanide 6.1 III 157
TDG UN/ID no Proper shipping name TDG Technical Name Transport hazard class(es) Packing Group Marine pollutant	UN1588 Cyanides, inorganic, solid, n.o.s. Potassium cyanide 6.1 III This product contains a chemical which is listed as a marine pollutant according to TDG.
IATA UN number or ID number Proper shipping name IATA Technical Name Transport hazard class(es) Packing group ERG Code Special Provisions	UN1588 Cyanides, inorganic, solid, n.o.s. Potassium cyanide 6.1 III 6L A3, A13
IMDG UN number or ID number Proper shipping name IMDG Technical Name Transport hazard class(es) Packing Group EmS-No Special Provisions Marine pollutant	UN1588 Cyanides, inorganic, solid, n.o.s. Potassium cyanide 6.1 III F-A, S-A 47, 223, 274 This material meets the definition of a marine pollutant
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.

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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

Complies
Does not comply
Complies

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

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**TCSI** - Taiwan Chemical Substances Inventory

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

#### **US Federal Regulations**

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or 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 cyanide (CAS #: 151-50-8)	1.0

#### 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)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium cyanide 151-50-8	10 lb	Х	Х	Х

#### <u>CERCLA</u>

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

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Potassium cyanide	10 lb	10 lb	RQ 10 lb final RQ
151-50-8			RQ 4.54 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 cyanide (1 - 5%) CAS#: 151-50-8	Sabotage/Contamination

## US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Potassium cyanide (CAS #: 151-50-8)	Male Reproductive

WARNING: This product can expose you to chemicals including Potassium cyanide, which is known to the State of California to cause birth defects or other reproductive harm.

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

#### **IMERC:** Not applicable

#### 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
Boron potassium oxide (B4K2O7) 1332-77-0	Х	-	-
Boron oxide (B2O3) 1303-86-2	Х	Х	Х
Potassium cyanide 151-50-8	Х	Х	Х

#### U.S. EPA Label Information

Chemical name	FIFRA	FDA
Boron potassium oxide (B4K2O7)	180.1121	-
Boron oxide (B2O3)	180.1121	-

## 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	Global Automotive Declarable

EN / AGHS

	Substance List Classifications	Substance List Thersholds
Boron potassium oxide (B4K2O7) 1332-77-0	Declarable Substance (FI)	1 % 0.1 %
Boron oxide (B2O3)	Declarable Substance (LR)	None reported
1303-86-2		

#### **NFPA and HMIS Classifications**

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

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

ACGIH ATSDR CCRIS CDC CEPA CICAD ECHA EEA EPA ERMA ECOSARS FDA GESTIS HSDB INERIS IPCS INCHEM IUCLID NITE NIH NIOSH LOLI NDF	ATSDR (Agenc CCRIS (Chemic CDC (Center fo CEPA (Canadia CICAD (Concis ECHA (The Eur EEA (Europear EPA (Environm ERMA (New Ze Estimation throu FDA (Food & D GESTIS (Infor Insurance) HSDB (Hazardo INERIS (The Na IPCS INCHEM IUCLID (The In Japan National NIH (National In NIOSH (National	HSDB (Hazardous Substances Data Bank) INERIS (The National Industrial Environment and Risks Institute) IPCS INCHEM (International Programme on Chemical Safety) IUCLID (The International Uniform Chemical Information Database) Japan National Institute of Technology and Evaluation (NITE) NIH (National Institutes of Health) NIOSH (National Institute for Occupational Safety and Health)		
HSDB	/	ous Substances Data Bank)		
-	Ϋ́Υ,			
-				
		<b>o</b>		
		LOLI (List of Lists - An International Chemical Regulatory Database)		
NICNAS		Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) Immediately Dangerous to Life or Health		
NIOSH IDLH			ministration of the LIC Department of Labor)	
OSHA PEEN		OSHA (Occupational Safety and Health Administration of the US Department of Labor)		
RTECS		PEEN (Pan European Ecological Network)		
SIDS		RTECS (Registry of Toxic Effects of Chemical Substances) SIDS (Screening Information Dataset) for High Volume Chemicals		
SYKE				
USDA		The Finnish Environment Institute (SYKE) USDA (United States Department of Agriculture)		
USDC		USDC (United States Department of Commerce)		
WHO		ealth Organization)		
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
х	Listed	Vacated	These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these

"liberated" exposure limits in their state regulations.

SKN* RSP+ C M	Skin designation Respiratory sensit Carcinogen mutagen	ization	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant
Prepared By		Hach Product Compliance Department		
Issue Date		14-Sep-2020		
<b>Revision Date</b>		17-Jan-2024		
<b>Revision Note</b>		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**