

SAFETY DATA SHEET

Issue Date 18-Aug-2017 Revision Date 18-Aug-2017

Version 1.1

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Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier Product Code(s) S21M001 **Product Name** KCI-C Potassium Chloride Crystals Other means of identification Safety data sheet number M00288 Recommended use of the chemical and restrictions on use **Recommended Use** Laboratory reagent. **Restrictions on use** None. None Uses advised against Details of the supplier of the safety data sheet **Supplier Address** Hexis Cientifica Ltda CNPJ: 53.276.010 / 00001-10 Av. Antonieta Piva Barrangueiros, 385 - Industrial District - Jundiai - SP -Phone: 11 4589-2672 Manufacturer Address Radiometer Analytical S.A. 72 rue d"Alsace 69627 Villeurbanne Cedex, France +33 (0)4 78 03 38 38 Emergency telephone number Argentina (+54) 911 2518 5274 **United States of America** +1(303) 623-5716 - 24 Hour Service +1(515)232-2533 - 8am - 4pm CST

Section 2: HAZARDS IDENTIFICATION

<u>GHS - Classification</u> Most Important Hazards According to ABNT NBR 14725-2

Acute toxicity - Oral

Category 5

Label elements

Signal word - Warning

<u>Hazard statements</u> H303 - May be harmful if swallowed

Precautionary statements P312 - Call a POISON CENTER or doctor if you feel unwell

Other Information

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance Raw Material/Pure Substance Substance

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Chemical Name	Potassium chloride	
Chemical Family	Inorganic salt	
CAS No	7447-40-7	
Formula	KCI	

Chemical name	CAS No	Percent Range
Potassium chloride	7447-40-7	100%

Section 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).
Inhalation	Aspiration into lungs can produce severe lung damage.
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.
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.
Ingestion	Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. Remove from exposure, lie down. Call a POISON CENTER or doctor/physician if you feel unwell. Do not induce vomiting without medical advice.
For emergency responders	
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. See section 8 for more information.

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.

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide. Dry chemical. Water.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific extinguishing methods

Evacuate area and fight fire from a safe distance.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

Specific hazards arising from the chemical

May react violently with. Bromine trifluoride. Oxidizers.

Hazardous combustion products

This material will not burn.

Section 6: ACCIDENTAL RELEASE MEASURES

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.	
For emergency responders	Use personal protection recommended in Section 8.	
Environmental precautions		
Environmental precautions	See Section 12 for additional ecological information.	
Methods and material for containm	ent and cleaning up	
Methods for containment	Prevent further leakage or spillage if safe to do so. Cover with plastic sheet to prevent spreading.	
Methods for cleaning up	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.	
	Section 7: HANDLING AND STORAGE	
Precautions for safe handling		
Advice on safe handling	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray.	
General Hygiene Considerations	Handle in accordance with good industrial bygiene and safety practice. Do not eat, drink or	

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.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

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 equipmentEye/face protectionWear 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.		
Thermal hazards	None under normal processing		

Environmental exposure controls

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state		Solid			
Gas Under Press	sure	Not clas	sified according to GHS criteria		
Appearance	crystalline		Cold	or	white
Odor	None		Odo	or threshold	No data available
<u>Property</u>			<u>Values</u>		Remarks • Method
Molecular weigh	t		74.55 g/mole		
рН			7		
Melting point/fre	ezing point		773 °C / 1423 °F		
Boiling point / bo	oiling range		1413 °C / 2575 °F		
Evaporation rate			Not applicable		
Vapor pressure			Not applicable		
Vapor density (a	ir = 1)		Not applicable		
Specific gravity ((water = 1 / air = 1)		1.98		
Partition Coeffici	ient (n-octanol/wat	er)	log Kow ~ 0		
Soil Organic Car Coefficient	bon-Water Partitio	n	log K _{oc} ~ 0		
Autoignition tem	perature		No data available		
Decomposition t	emperature		No data available		
Dynamic viscosi	ty		Not applicable		
Kinematic viscos	sity		Not applicable		

Solubility(ies)

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Completely soluble	347000 mg/L	20 °C / 68 °F

Solubility in other solvents

Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature
Acids	Soluble	> 1000 mg/L	25 °C / 77 °F
Glycerol	Soluble	> 1000 mg/L	25 °C / 77 °F

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Ethyl alcohol	Slightly soluble	> 0.1 mg/L	25 °C / 77 °F
Acetone	Acetone Insoluble		25 °C / 77 °F
Ether Insoluble		< 0.1 mg/L	25 °C / 77 °F

Other Information Metal Corrosivity Not classified as corrosive to metal according to GHS criteria **Steel Corrosion Rate** Not applicable **Aluminum Corrosion Rate** Not applicable Volatile Organic Compounds (VOC) Content Not applicable. **Bulk density** No data available Not classified according to GHS criteria. **Explosive properties** Does not burn, but may melt in a fire, releasing toxic fumes. Explosion data **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 No data available **Upper flammability limit:** Lower flammability limit: No data available Not applicable Flash point Method No information available **Oxidizing properties** Not classified according to GHS criteria. Not classified as self-reactive, pyrophoric, self-heating or emitting **Reactivity propeties** flammable gases in contact with water according to GHS criteria.

Section 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 normal conditions.

Special dangers of the product

None reported.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

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None known.

Hazardous Decomposition Products

Potassium oxide. Chlorides.

Explosive properties	Does not burn, but may melt in a fire, releasing toxic fumes.		
Upper explosion limit	No data available		
Lower explosion limit	No data available		
<u>Autoignition temperature</u> No data available			
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	None reported. None reported.		

Section 11: TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information	May be harmful if swallowed.
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	May be harmful if swallowed.
Aggravated Medical Conditions	None known.
Toxicologically synergistic products	None known.
Toxicokinetics, metabolism and distribution	This Product is by Weight 100% an Individual Pure Chemical
	Substance.

Product Acute Toxicity Data

Oral Exposure Route

Dermal Exposure Route

Inhalation (Dust/Mist) Exposure Route

Inhalation (Vapor) Exposure Route

Inhalation (Gas) Exposure Route

Acute Toxicity Estimations (ATE)

This Product is by Weight 100% an Individual Pure Chemical Substance

If available, see ingredient data below

Not applicable

Ingredient Acute Toxicity Data

Oral Exposure Route	1			If available, see data below	
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Potassium chloride (100%) CAS#: 7447-40-7	Rat LD₅o	2600 mg/kg	None reported	None reported	IUCLID (The International Uniform Chemical Information Database)
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data

Potassium chloride (100%) CAS#: 7447-40-7	Mouse LD ₅₀	1500 mg/kg	None reported	None reported	IUCLID (The International Uniform Chemical Information Database)	
Dermal Exposure Ro	ute			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 Specific Target Organ Toxicity Single Exposure Dat				<u>a</u>		
Oral Exposure Route				If available, see ingredient data below		
Dermal Exposure Route				If available, see ingredient data below		
Inhalation (Dust/Mist) Exposure Route				If available, see ingredient data below		
Inhalation (Vapor) Exposure Route				If available, see ingredient data below		
Inhalation (Gas) Exposure Route				If available, see ingredient data below		

Ingredient Specific Target Organ Toxicity Single Exposure Data

Oral Exposure Route	•			If available, see data below	
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Potassium chloride	Man	20 mg/kg	None	None reported	RTECS (Registry of Toxic
(100%)	LDLo		reported		Effects of Chemical
CAS#: 7447-40-7					Substances)
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time	_	sources for data
Potassium chloride	Man	214.29 mg/kg	None	Gastrointestinal	RTECS (Registry of Toxic
(100%)	TDLo		reported	Gas	Effects of Chemical
CAS#: 7447-40-7					Substances)

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
<u>Aspiration toxicity</u> If available, see data below Kinematic viscosity	Not applicable

Product Skin Corrosion/Irritation Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

Ingredient Skin Corrosion/Irritation Data

If available, see data below

С	hemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data

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Potassium chloride (100%) CAS#: 7447-40-7	None reported	Human	30 mg	20 minutes	Not corrosive or irritating to skin	ECHA (The European Chemicals Agency)
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Product Serious Eye Damage/Eye Irritation Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

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
Potassium chloride (100%) CAS#: 7447-40-7	Standard Draize Test	Rabbit	500 mg	24 hours	Mild eye irritant	RTECS (Registry of Toxic Effects of Chemical Substances)

Sensitization Information

Product Sensitization Data

Skin Sensitization Exposure Route	This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.
Respiratory Sensitization Exposure Route	This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.
Ingredient Sensitization Data	
Skin Sensitization Exposure Route	No data available.
Respiratory Sensitization Exposure Route	No data available.
Chronic Toxicity Information	
Product Specific Target Organ Toxicity Repeat Dose Data	
Oral Exposure Route	If available, see ingredient data below.
Dermal Exposure Route	If available, see ingredient data below.
Inhalation (Dust/Mist) Exposure Route	If available, see ingredient data below.
Inhalation (Vapor) Exposure Route	If available, see ingredient data below.
Inhalation (Gas) Exposure Route	If available, see ingredient data below.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Oral Exposure Route		If available, see data below				
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data	
Potassium chloride (100%) CAS#: 7447-40-7	Rat TD∟₀	75600 mg/kg	42 days	Kidney, Ureter, or Bladder Urine volume increased	RTECS (Registry of Toxic Effects of Chemical Substances)	
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data	
Potassium chloride (100%) CAS#: 7447-40-7	Rat TD⊾₀	938000 mg/kg	78 weeks	Kidney, Ureter, or Bladder Changes in tubules (including acute renal failure, acute tubular necrosis)	RTECS (Registry of Toxic Effects of Chemical Substances)	

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 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

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Potassium chloride	7447-40-7	-	-	-	-

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

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

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

Ingredient Germ Cell Mutagenicity invitro Data

If available, see data below

This Product is by Weight 100% an Individual Pure Chemical

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Potassium chloride (100%) CAS#: 7447-40-7	Mutation in microorganisms	Mouse lymphocyte	2048 mmol/L	None reported	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of Chemical Substances)
Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and

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						sources for data
Potassium chloride	DNA damage	Human leukocyte	1 mmol/L	2 hours	Positive test result for	RTECS (Registry
(100%)					mutagenicity	of Toxic Effects of
CAS#: 7447-40-7						Chemical
						Substances)
Chemical name	Test	Cell Strain	Reported	Exposure	Results	Key literature
			dose	time		references and
						sources for data
Potassium chloride	Sister chromatid	Hamster ovary	180 mmol/L	None	Positive test result for	RTECS (Registry
(100%)	exchange			reported	mutagenicity	of Toxic Effects of
(10070)	excitative			ropontoa		
CAS#: 7447-40-7	excitatige			reported	lineagementy	Chemical

<u>Product Germ Cell Mutagenicity</u> *invivo* Data This Product is by Weight 100% an Individual Pure Chemical Substance.

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

Ingredient Germ Cell Mutagenicity invivo Data

Oral Exposure Route

Oral Exposure Route If available, see data below						
Chemical name	Test	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Potassium chloride (100%) CAS#: 7447-40-7	Unscheduled DNA synthesis	Rat	1.5 mg/kg	None reported	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of Chemical Substances)

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 Reproductive Toxicity Data

This Product is by Weight 100% an Individual Pure Chemical Substance.

Oral Exposure Route	If available, see ingredient data below
Dermal Exposure Route	If available, see ingredient data below
Inhalation (Dust/Mist) Exposure Route	If available, see ingredient data below
Inhalation (Vapor) Exposure Route	If available, see ingredient data below
Inhalation (Gas) Exposure Route	If available, see ingredient data below
Ingredient Reproductive Toxicity Data	
Oral Exposure Route	No data available

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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

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity Based on the classification principles, not classified as hazardous to the environment Product Ecological Data This Product is by Weight 100% an Individual Pure Chemical Substance Aquatic toxicity Fish If available, see ingredient data below If available, see ingredient data below Crustacea If available, see ingredient data below Algae **Terrestrial toxicity** Soil If available, see ingredient data below Vertebrates If available, see ingredient data below If available, see ingredient data below Invertebrates

Ingredient Ecological Data

Aquatic toxicity

Fish		If available, see ingredient data below			
Chemical name	Exposure	Species	Endpoint	Reported	Key literature references and
	time		type	dose	sources for data
Potassium chloride	96 hours	Pimephales promelas	LC50	880 mg/L	IUCLID (The International
(100%)				0	Uniform Chemical Information
CAS#: 7447-40-7					Database)
Chemical name	Exposure	Species	Endpoint	Reported	Key literature references and
	time		type	dose	sources for data
Potassium chloride	96 hours	Gambusia affinis	LC50	920 mg/L	IUCLID (The International
(100%)				C C	Uniform Chemical Information
CAS#: 7447-40-7					Database)

Crustacea	If available, see ingredient data below				below
Chemical name	Exposure	Species	Endpoint	Reported	Key literature references and
	time		type	dose	sources for data
Potassium chloride	48 hours	Daphnia magna	EC ₅₀	83 mg/L	IUCLID (The International
(100%)					Uniform Chemical Information
CAS#: 7447-40-7					Database)

Algae

No data available

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Terrestrial toxicity	
Soil	No data available
Vertebrates	No data available
Invertebrates	No data available

Other Information

Persistence and degradability

Not readily biodegradable according to GHS criteria.

Product Biodegradability Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

Ingredient Biodegradability Data

Test data reported below

Chemical name	Test method	Biodegradation	Exposure time	Results
Potassium chloride (100%) CAS#: 7447-40-7	Inorganic Salt	None reported	None reported	Not readily biodegradable

Bioaccumulation

None known.

Product Bioaccumulation Data

Ingredient Bioaccumulation Data

Additional information

Product Information

Partition Coefficient (n-octanol/water)

log Kow ~ 0

Substance.

No data available

This Product is by Weight 100% an Individual Pure Chemical

Ingredient Information

Chemical name	Partition Coefficient (n-octanol/water)	Method
Potassium chloride (100%)	log K _{ow} ~ 0	No information available
CAS#: 7447-40-7		

<u>Mobility</u>

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

Product Information

Soil Organic Carbon-Water Partition Coefficient

log K_{oc} ~ 0

Ingredient Information

Chemical name	Soil Organic Carbon-Water Partition	Method
	Coefficient	

ſ	Potassium chloride	log K₀c ~ 0	No information available
	(100%)	-	
	CAS#: 7447-40-7		

Additional information

Water solubility

Product Information

Water solubility classification	Water solubility	Water Solubility Temperature
Completely soluble	347000 mg/L	20 °C / 68 °F

Ingredient Information

Chemical name	Water solubility classification	Water solubility	Water solubility temperature °C	Water solubility temperature °F
Potassium chloride (100%) CAS#: 7447-40-7	Completely soluble	347000 mg/L	20 °C	68 °F

Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS				
Waste from residues/unused productsDisposal should be in accordance with applicable regional, national, and l regulations.				
Contaminated packaging	Dispose of in accordance with federal, state and local regulations. Improper disposal or reuse of this container may be dangerous and illegal.			
Section 14: TRANSPORT INFORMATION				
U.S. DOT	Not regulated			
Emergency Response Guide Number, Not applicable				

Emergency Response Guide Number Not applicable

IMDG	Not regulated
	Not regulated
ADR	Not regulated

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.

Section 15: REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies

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EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
TCSI	Complies
AICS	Complies
NZIOC	Complies

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

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

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

Country Regulations

Brazil

Federal Decree No. 2.657, July 3, 1998 Standard ABNT NBR 14725-3 Ordinance No. 229, May 24, 2011 - Changes to Regulatory Standard No. 26 Standard ABNT NBR 14725-4 Resolution no. 420/2004 - ANTT Resolution no. 5.232 / 2016 - ANTT NR 15 Ministry of Labor and Employment Ordinance no. 1274 / 2003 Federal Decree 3.665 / 2000 Law no. 12.305 / 10 Law no. 10.357 / 2001

Argentina

SRT 3359/2015 Resolution 801/2015 Law of Health and Safety and Work (Law 19,587) Decree 351/79 Regulatory Law 19587

Columbia

Law 253, 1996: Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal. Resolution 2400/1979: Ministry of Labour and Social Security, ACGIH Exposure Limits. Decision 602, Andean Regulation for the Control of chemical substances used in the illegal manufacture of narcotic drugs and psychotropic substances. Law 29/1992: Montreal Protocol on Substances that Deplete the Ozone Layer and its Amendments. Law 55/1993: Recommendation No. 177 on the International Work Conference on Safety in the Use of Chemical Products at Work. Law 30/1990: Vienna Convention for the Protection of the Ozone Layer. Law 55/1993: Convention No. 170 on the General Conference of the ILO.

Uruguay

Law 16.157: Approval of the Montreal Protocol on Substances that Deplete the Ozone Layer. Law 17.283: Regarding environmental protection and management of hazardous wastes. Presidential Decree 346/11: Implementation of GHS for all manufactured or distributed products. Presidential Decree 519/984: Regulates the activities relating to the use of radioactive materials and ionizing radiation throughout the country.

Ecuador

Law No. 37 - Environmental Management Act NTE INEN 2266:2013 - Requirements for Transport, Storage and Handling of Hazardous Materials Unified Text of Secondary Legislation of the Environment Ministry: Book VI

Section 16: OTHER INFORMATION

NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and Chemical Properties -
HMIS	Health hazards - 1	Flammability - 0	Physical Hazards - 0	Personal protection X
				See section 8 for more
				information

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

NIOSH IDLH ACGIH NDF		Immediately Dangerous to Life or Health ACGIH (American Conference of Governmental Industrial Hygienists) no data				
Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION						
TWA	TWA (time-weight	ted average)	STEL	STEL (Short Term Exposure Limit)		
Ceiling	Ceiling Limit Value	e	MAC	Maximum Allowable Concentration		
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 sensi Carcinogen mutagen	tization	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant		
NIOSH (RTECS) I	NIOSH (RTECS) Number TS8050000					
<u>Key literature references and sources for data</u> See Section 11: TOXICOLOGICAL INFORMATION See Section 12: ECOLOGICAL INFORMATION						
Issue Date		18-Aug-2017				
Revision Date		18-Aug-2017				
Revision Note		None				
Restrictions on use		None				
Training Advice		Call a POISON CENTER or doctor/physician if you feel unwell				
This material safe	This material safety data sheet has been prepared according to Brazilian legislation and ABNT NBR 14725:2009					
Disclaimer						
	IBILITY: Each use	r should read and under	stand this inforr	nation 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