SAFETY DATA SHEET

Revision date 23-February-2022

1. Identification		
Product identifier		
Product Name	POTASSIUM DICHROMATE, CRYSTAL, REAGENT, ACS	
Other means of identification		
Product Code(s)	P1282	
UN/ID no	UN3086	
Synonyms	None	
Recommended use of the chemical and restrictions on use		
Recommended use	No information available	
Restrictions on use	No information available	
Details of the supplier of the safety	data sheet	
Supplier Address Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000		

Emergency telephone number

Emergency Telephone

Chemtrec 1-800-424-9300

2. Hazard(s) identification

Classification

Acute toxicity - Oral	Category 2
Acute toxicity - Dermal	Category 1
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1A
Skin sensitization	Category 1A
Germ cell mutagenicity	Category 1A
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1
Oxidizing solids	Category 2

Hazards not otherwise classified (HNOC)

Not applicable



Revision Number 2

Label elements

Danger Hazard statements Fatal if swallowed Fatal in contact with skin Fatal if inhaled Causes severe skin burns and eve damage May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction May cause genetic defects May cause cancer May damage fertility or the unborn child Causes damage to organs through prolonged or repeated exposure May intensify fire; oxidizer

Appearance Crystalline

Physical state Solid

Odor No information available

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not get in eyes, on skin, or on clothing Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection Contaminated work clothing must not be allowed out of the workplace Keep away from heat Keep/Store away from clothing/ combustible materials Take any precaution to avoid mixing with combustibles

Precautionary Statements - Response

Specific treatment is urgent (see .? on this label) Immediately call a POISON CENTER or doctor IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor Immediately call a POISON CENTER or doctor IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower Wash contaminated clothing before reuse If skin irritation or rash occurs: Get medical advice/attention IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER or doctor IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth Do NOT induce vomiting In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage

Store locked up. Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity

<u>Other information</u> Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. Composition/information on ingredients

Substance

Chemical name	CAS No	Weight-%	Trade secret
Potassium Dichromate	7778-50-9	100	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.	
Inhalation	If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention. May cause allergic respiratory reaction. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing.	
Skin contact	IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get immediate medical advice/attention. May cause an allergic skin reaction.	
Ingestion	Get immediate medical advice/attention. 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.	
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. Use personal protective equipment as required. See section 8 for more information. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Avoid contact with skin, eyes or clothing.	
Most important symptoms and effe	ects, both acute and delayed	
Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Burning sensation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Itching. Rashes. Hives.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitization in susceptible persons. Treat symptomatically.	

5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Use water. Do not use dry chemicals or foams. CO 2 or Halon may provide limited control. Flood fire area with water from a distance. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Dry chemical. Foam.
Specific hazards arising from the chemical	These substances will accelerate burning when involved in a fire. Some may decompose explosively when heated or involved in a fire. May ignite combustibles (wood paper, oil, clothing, etc.). Runoff may create fire or explosion hazard. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact. May cause sensitization by skin contact.
Explosion data Sensitivity to mechanical impac	ct none.
Sensitivity to static discharge	yes.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. Do not move cargo or vehicle if cargo has been exposed to heat. oxidizer. May ignite combustibles (wood paper, oil, clothing, etc.). Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn.
6. Accidental release meas	sures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See section 8 for more information. Stop leak if you can do it without risk. Use personal protective equipment as required. Avoid generation of dust. Do not breathe dust. Attention! Corrosive material.
Other information	Keep combustibles (wood, paper, oil, etc) away from spilled material. DO NOT GET WATER INSIDE CONTAINERS. Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
Methods and material for containn	nent and cleaning up
Methods for containment	Stop leak if you can do it without risk. Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.
Methods for cleaning up	With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Flush area with flooding quantities of water. Prevent product from entering drains. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid contact with skin, eyes or clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Provide extract ventilation to points where emissions occur. Avoid breathing vapors or mists.

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. Do not store near combustible materials. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Protect from moisture. Store away from other materials.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium Dichromate	No data available	5 ug/m ³ TWA (I;isted as	-
7778-50-9		Chromium compounds)	
		0.1 mg/m ³ Ceiling (listed as	
		chromates)	

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	Tight sealing safety goggles. Face protection shield.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Wear fire/flame resistant/retardant clothing. Impervious clothing.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General hygiene considerations	Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not breathe dust. Take off contaminated clothing and wash before reuse.

9. Physical and chemical properties

Information on basic physical and chemical properties		
Physical state	Solid	
Appearance	Crystalline	
Color	Reddish-orange	
Odor	No information available	

Odor threshold	No information available	
Property	Values	Remarks • Method
рН	4 (1% solution)	None known
Melting point / freezing point	398 °C / 748.4 °F	None known
Boiling point / boiling range	500 °C / 932 °F	None known
Flash point	no data available	None known
Evaporation rate	no data available	None known
Flammability (solid, gas)	no data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive	No data available	
limits	NI 17 111	N I I
Vapor pressure	No data available	None known
Vapor density	no data available	None known
Relative density	2.7	None known
Water solubility	Soluble in water	None known
Solubility(ies)	Insoluble in Alcohol	None known
Partition coefficient	No data available	None known
Autoignition temperature	no data available	None known
Decomposition temperature		None known
Kinematic viscosity	no data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk density	No information available	

10. Stability and reactivity

Reactivity	Oxidizer.
Chemical stability	May cause fire or explosion; strong oxidizer.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks. Incompatible materials. Excessive heat. Exposure to air or moisture over prolonged periods.
Incompatible materials	Organic material. Combustible material. Hydrocarbons. Acids. Bases. Oxidizing agent.
Hazardous decomposition products None known based on information supplied.	

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation

Specific test data for the substance or mixture is not available. Fatal if inhaled. (based on components). Corrosive by inhalation. Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause sensitization in susceptible persons. May cause irritation of respiratory tract.

Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.	
Skin contact	Specific test data for the substance or mixture is not available. Fatal in contact with skin. (based on components). Corrosive. Causes burns. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact.	
Ingestion	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May cause additional affects as listed under "Inhalation". Fatal if swallowed.	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Redness. Burning. May cause blindness. 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. Itching. Rashes. Hives.	

Acute toxicity

Numerical measures of toxicity

Unknown acute toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium Dichromate	= 25 mg/kg (Rat)	= 1150 mg/kg (Rabbit)= 14	= 99 mg/m³(Rat)4 h
7778-50-9	= 48 mg/kg (Rat)	mg/kg (Rabbit)	

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Serious eye damage/eye	irritation Classification	Classification based on data available for ingredients. Causes burns. Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns.		
Respiratory or skin sensi Germ cell mutagenicity	Contains a k	May cause sensitization by inhalation. May cause sensitization by skin contact. Contains a known or suspected mutagen. Classification based on data available for ingredients. May cause genetic defects.		
Carcinogenicity The table below indicates	ingredients.	Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer. ach agency has listed any ingredient as a carcinogen.		
Chemical name	ACGIH	IARC	NTP	OSHA
Potassium Dichromate 7778-50-9	-	Monograph 49 [1990] Chromium[VI] Supplement 7 [1987] Monograph 23 [1980] Monograph 2 [1973]	-	-

Legend

Reproductive toxicity	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.	
STOT - single exposure STOT - repeated exposure Target organ effects	May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. liver, kidney, respiratory system, Eyes, Skin, blood, lungs.	
Aspiration hazard	No information available.	
Other adverse effects	No information available.	

12. Ecological information

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
otassium Dichromate	-	LC50: 113.6 - 155.7mg/L	-	-
7778-50-9		(96h, Lepomis		
		macrochirus) LC50: 14 -		
		20.9mg/L (96h,		
		Pimephales promelas)		
		LC50: 15.41 - 30.36mg/L		
		(96h, Pimephales		
		promelas) LC50: 21.209 -		
		30.046mg/L (96h,		
		Oryzias latipes) LC50: 23		
		- 41.2mg/L (96h, Poecilia		
		reticulata) LC50: 24.81 -		
		34.55mg/L (96h, Poecilia		
		reticulata) LC50: 65.6 -		
		137.6mg/L (96h, Lepomis		
		macrochirus) LC50:		
		=12.3mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: =26mg/L (96h,		
		Morone saxatilis) LC50:		
		=320mg/L (96h, Lepomis		
		macrochirus) LC50:		
		>139mg/L (96h, Cyprinus		
		carpio)		

Other adverse effects

No information available.

13. Disposal considerations

Waste treatment methods	
Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

14. Transport information

DOT	
UN/ID no	UN3086
Proper Shipping Name:	Toxic solids, oxidizing, n.o.s.
Hazard class	6.1
Subsidiary Class	5.1
Packing group:	
Special Provisions	T6, TP33
Marine Pollutant	Severe Marine Pollutant
Description:	UN3086, Toxic solids, oxidizing, n.o.s. (Potassium Dichromate), 6.1 (5.1), I
Emergency Response Guide	141

Number

TDG UN-No: Proper Shipping Name: Hazard class Subsidiary Class Packing Group: Description:	UN3086 Toxic solid, oxidizing, n.o.s. 6.1 5.1 I UN3086, Toxic solid, oxidizing, n.o.s. (Potassium Dichromate), 6.1 (5.1), I
MEX UN-No Proper Shipping Name Hazard class Subsidiary Class Special Provisions Packing Group Description	UN3086 Toxic solid, oxidizing, n.o.s. 6.1 5.1 274 I UN3086, Toxic solid, oxidizing, n.o.s. (Potassium Dichromate), 6.1 (5.1), I
ICAO (air) UN-No: Proper Shipping Name: Hazard class Subsidiary hazard class Packing Group: Special Provisions Description:	UN3086 Toxic solid, oxidizing, n.o.s. 6.1 5.1 I A5 UN3086, Toxic solid, oxidizing, n.o.s. (Potassium Dichromate), 6.1 (5.1), I
IATA UN number Proper Shipping Name: Transport hazard class(es) Subsidiary hazard class Packing group Description:	UN3086 Toxic solid, oxidizing, n.o.s. 6.1 5.1 I UN3086, Toxic solid, oxidizing, n.o.s. (Potassium Dichromate), 6.1 (5.1), I
IMDG UN number Proper shipping name Transport hazard class(es) Subsidiary hazard class Packing group EmS-No Special Provisions Marine pollutant Description	UN3086 Toxic solid, oxidizing, n.o.s. 6.1 5.1 I F-A, S-Q 274 P UN3086, Toxic solid, oxidizing, n.o.s. (Potassium Dichromate), 6.1 (5.1), I, Marine pollutant
RID UN number Proper Shipping Name: Transport hazard class(es) Packing group Classification code Special Provisions Description: Labels	UN3086 Toxic solid, oxidizing, n.o.s. 6.1 I TO2 274 UN3086, Toxic solid, oxidizing, n.o.s. (Potassium Dichromate), 6.1 (5.1), I, ENVIRONMENTALLY HAZARDOUS 6.1 + 5.1
ADR UN number Proper Shipping Name: Transport hazard class(es) Subsidiary hazard class Packing group Classification code	3086 Toxic solid, oxidizing, n.o.s. 6.1 5.1 I TO2

Tunnel restriction code Special Provisions Description: Labels	(C/E) 274 3086, Toxic solid, oxidizing, n.o.s. (Potassium Dichromate), 6.1 (5.1), I, (C/E), ENVIRONMENTALLY HAZARDOUS 6.1 + 5.1
ADN	
UN/ID No	UN3086
Proper shipping name	Toxic solid, oxidizing, n.o.s.
Transport hazard class(es)	6.1
Packing Group	
Classification code	T02
Special Provisions	274, 802
Description	UN3086, Toxic solid, oxidizing, n.o.s. (Potassium Dichromate), 6.1 (+ 5.1), I, ENVIRONMENTALLY HAZARDOUS
Hazard label(s)	6.1 + 5.1
Limited quantity (LQ)	0
Equipment Requirements	PP, EP

15. Regulatory information

International Inventories

Complies
Complies Complies This product complies with ENCS: This product complies with China: Complies Complies All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

Legend:

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

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 Dichromate - 7778-50-9	0.1	

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Potassium Dichromate	10 lb final RQ	-
7778-50-9	4.54 kg final RQ	

US State Regulations

<u>California Proposition 65</u> This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65
Potassium Dichromate - 7778-50-9	developmental toxicity male reproductive toxicity
	carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Potassium Dichromate	1564	Present	Environmental hazard
7778-50-9			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA Health hazards 4 Flammability 0 Instability 1 Physical and chemical properties OX HMIS - Health hazards * 2 Flammability 0 Physical hazards 1 Personal protection X Chronic Hazard Star Legend * = Chronic Health Hazard	rd	
Key or legend to abbreviations and acronyms used in the	safety data sheet	
Legend Section 8: EXPOSURE CONTROLS/PERSONAL F		
TWA TWA (time-weighted average) Ceiling Maximum limit value	STEL	STEL (Short Term Exposure Limit)
Key literature references and sources for data used to co Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fu U.S. Environmental Protection Agency High Production Volum Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLIE Japan GHS Classification Australia National Industrial Chemicals Notification and Asses NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBM	ungicide, and Rodention ne Chemicals D) ssment Scheme (NICN)	

National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date Revision Note Disclaimer

23-February-2022 No information available.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet