

Revision date 12-Feb-2024

1. Identification

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Revision Number 1

1. Identification		
Product identifier		
Product Name	Potassium Dichromate, Crystal, ACS	
Other means of identification		
Product Code(s)	4280	
UN number or ID number	UN3086	
Synonyms	Bichromate of potash; Dipotassium dichromate; Pota dichromate (VI)	assium bichromate; Potassium
Recommended use of the chemical	and restrictions on use	
Recommended use	Industrial use Laboratory use Industrial Manufacturing (all)	
Restrictions on use	No information available	
Details of the supplier of the safety	data sheet	
Supplier Address Columbus Chemical Industries, Inc. N4335 Temkin Rd. Columbus, WI 53925 USA Phone: (920) 623-2140 Fax: (920) 623-2577 www.columbuschemical.com		
Emergency telephone number		
24 Hour Emergency Phone Number CHEMTREC: 1-800-424-9300 for US / 703-527-3887 outside US		7 outside US
Emergency Telephone	911	
2. Hazard(s) identification		
<u>Classification</u>		
Acute toxicity - Oral Acute toxicity - Dermal Acute toxicity - Inhalation (Dusts/Mists	>)	Category 3 Category 4 Category 2

Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1

Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Oxidizing solids	Category 2

### Hazards not otherwise classified (HNOC)

Not applicable

# Label elements

Danger

### Hazard statements

- H301 Toxic if swallowed
- H312 Harmful in contact with skin
- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin reaction
- H330 Fatal if inhaled
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335 May cause respiratory irritation
- H340 May cause genetic defects
- H350 May cause cancer
- H360 May damage fertility or the unborn child
- H372 Causes damage to organs through prolonged or repeated exposure
- H272 May intensify fire; oxidizer.



### **Precautionary Statements - Prevention**

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P271 Use only outdoors or in a well-ventilated area
- P284 Wear respiratory protection
- P272 Contaminated work clothing should not be allowed out of the workplace
- P210 Keep away from heat
- P220 Keep/Store away from clothing/ combustible materials
- P221 Take any precaution to avoid mixing with combustibles

### **Precautionary Statements - Response**

- P321 Specific treatment (see First-Aid Measures on SDS)
- P310 Immediately call a POISON CENTER or doctor/physician
- P320 Specific treatment is urgent (see First-Aid Measures on SDS)
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 Immediately call a POISON CENTER or doctor/physician
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention

#### P363 - Wash contaminated clothing before reuse

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P310 - Immediately call a POISON CENTER or doctor/physician

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P330 - Rinse mouth

P331 - Do NOT induce vomiting

P370 + P378 - In case of fire: Use CO2, dry chemical, or foam to extinguish

### **Precautionary Statements - Storage**

P405 - Store locked up

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

#### Precautionary Statements - Disposal

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

#### Other information

Very toxic to aquatic life with long lasting effects.

### 3. Composition/information on ingredients

### Substance

Synonyms

Bichromate of potash; Dipotassium dichromate; Potassium bichromate; Potassium dichromate (VI).

Chemical name	CAS No	Weight-%	Formula	Molecular Weight
Potassium dichromate	7778-50-9	>98	K2Cr2O7	294.18 g/mol

### 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. IF exposed or concerned: Get medical advice/attention. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do Inhalation 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. Remove to fresh air. Do not breathe dust. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical 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. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Skin contactIF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water<br/>before removing clothes. IF ON SKIN: Wash with plenty of soap and water. Wash<br/>contaminated clothing before reuse. Get immediate medical attention. May cause an<br/>allergic skin reaction.IngestionDo NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious<br/>person. Get immediate medical attention. 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 effects, 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 medica	al 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 <sub>2</sub> 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.
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. May cause sensitization by skin contact.
Explosion data Sensitivity to mechanical impac	<b>:t</b> None.
Sensitivity to static discharge	Yes.
Special protective equipment and precautions 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 measures

### 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 conta	ainment 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. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Take off contaminated clothing and wash before reuse. 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. Keep out of the reach of children. Store locked up. Protect from moisture. Store away from other materials.

### 8. Exposure controls/personal protection

### Control parameters

This product, as supplied, does not contain any hazardous materials with occupational **Exposure Limits** exposure limits established by the region specific regulatory bodies. Appropriate engineering controls **Engineering controls** Showers Eyewash stations Ventilation systems. Individual protection measures, such 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 Chemical resistant apron. Wear fire/flame resistant/retardant clothing. Wear suitable protective clothing. Long sleeved clothing. When workers are facing concentrations above the exposure limit they must use **Respiratory protection** 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 pasic physical and o		
Physical state	Solid	
Appearance	Crystalline	
Color	Yellow-orange; Orange; Red-orange	
Odor	No information available	
Odor threshold	No information available	
Property	<u>Values</u>	Remarks • Method
рН	3.5 - 5.0	@ 29.4 g/L at 25 °C
pH (as aqueous solution)	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling	No data available	None known
range		
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	Soluble in water	None known
Solubility(ies)	No data available	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	294.18 g/mol	
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. Corrosive. (based on components). Causes burns. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact. May be absorbed through the skin in harmful amounts. Harmful in contact with skin.	
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 be fatal if swallowed and enters airways. May cause additional affects as listed under "Inhalation".	
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

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium dichromate	= 48 mg/kg (Rat)	= 1150 mg/kg (Rabbit)	= 99 mg/m³ (Rat) 4 h

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

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes severe skin burns and eye damage.

Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye damage. Causes burns.			
Respiratory or skin sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.			
Germ cell mutagenicity	Contains a known or suspected mutagen. Classification based on data available for ingredients. May cause genetic defects.			data available for
Carcinogenicity	ingredients. I	May cause cancer.	gen. Classification based of	n data available for
The table below indicates whether e Chemical name	CGIH	IARC	NTP	OSHA
Potassium dichromate	-	Group 1	Known	X
Group 1 - Carcinogenic to Humar NTP (National Toxicology Prog Known - Known Carcinogen OSHA (Occupational Safety and X - Present	ram)	nistration of the US Depa	rtment of Labor)	
Reproductive toxicity	Classificatior child.	n based on data available fo	or ingredients. May damage	e fertility or the unborn
STOT - single exposure	May cause re	espiratory irritation.		
STOT - repeated exposure	Causes dam	age to organs through prol	onged or repeated exposure	e.
Target organ effects	Mucous men	nbrane, Respiratory system	n, Eyes, Skin.	
Aspiration hazard	No informatio	on available.		
Other adverse effects	No informatio	on available.		
Interactive effects	No informatio	No information available.		

# 12. Ecological information

### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Potassium dichromate		96h LC50: 113.6 - 155.7 mg/L (Lepomis macrochirus) 96h LC50: 14 - 20.9 mg/L (Pimephales promelas) 96h LC50: 15.41 - 30.36		-

mg/L (Pimephales	
promelas) 96h LC50:	
21.209 - 30.046 mg/L	
(Oryzias latipes) 96h	
LC50: 23 - 41.2 mg/L	
(Poecilia reticulata) 96h	
LC50: 24.81 - 34.55	
mg/L (Poecilia reticulata)	
96h LC50: 65.6 - 137.6	
mg/L (Lepomis	
macrochirus) 96h LC50:	
= 12.3 mg/L	
(Oncorhynchus mykiss)	
96h LC50: = 320 mg/L	
(Lepomis macrochirus)	
96h LC50: > 139 mg/L	
(Cyprinus carpio)	

Persistence and degradability	No information available.
Bioaccumulation	There is no data for this product.
Other adverse effects	No information available.

# 13. Disposal considerations

### **Disposal 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. Dispose of contents/containers in accordance with local regulations.
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.

# 14. Transport information

DOT	Regulated
UN number or ID number	UN3086
Proper shipping name	Toxic solids, oxidizing, n.o.s. (Potassium dichromate)
Transport hazard class(es)	6.1
Subsidiary hazard class	(5.1)
Packing group	II
DOT Marine Pollutant	No
<u>TDG</u>	Regulated
UN number or ID number	UN3086
UN proper shipping name	Toxic solids, oxidizing, n.o.s. (Potassium dichromate)
Transport hazard class(es)	6.1
Subsidiary hazard class	(5.1)
Packing group	II
ICAO (air)	Not regulated

UN number or ID number	UN3086
UN proper shipping name	Toxic solids, oxidizing, n.o.s. (Potassium dichromate)
Transport hazard class(es)	6.1
Subsidiary hazard class	(5.1)
Packing group	II
<u>IATA</u>	Regulated
UN number or ID number	UN3086
UN proper shipping name	Toxic solids, oxidizing, n.o.s. (Potassium dichromate)
Transport hazard class(es)	6.1
Subsidiary hazard class	(5.1)
Packing group	II
IMDG	Regulated
UN number or ID number	UN3086
UN proper shipping name	Toxic solids, oxidizing, n.o.s. (Potassium dichromate)
Transport hazard class(es)	6.1
Subsidiary hazard class	(5.1)
Packing group	II

### 15. Regulatory information

International Inventories	
TSCA	Complies.
DSL/NDSL	Complies.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIoC	Contact supplier for inventory compliance status.

**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

AICS - Australian Inventory of Chemical Substances

**NZIOC** - New Zealand Inventory of Chemicals

### US Federal Regulations

### SARA 313

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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

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 contains the following substances which are regulated 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 dichromate	10 lb	-	-	Х

### **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	Reportable Quantity (RQ)
Potassium dichromate	10 lb	-	RQ 10 lb final RQ RQ 4.54 kg final RQ

### US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Potassium dichromate	Х	Х	Х

### U.S. EPA Label Information

### EPA Pesticide Registration Number Not applicable

16. Other information				
NFPA HMIS Chronic Hazard Star L	Health hazards 4 Health hazards 2 * .egend *= Chronic I		Instability 1 Physical hazards 1	Special hazards OX Personal protection X
Key or legend to abbreviations and acronyms used in the safety data sheet Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION				
TWA	3: EXPOSURE CONTROLS/PE TWA (time-weighted average) Maximum limit value	STEL *	STEL (Short Term Skin designation	n Exposure Limit)
Key literature references and sources for data used to compile the SDS 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, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) 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 PUBMED) 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 date12-Feb-2024Revision NoteNo information available.DisclaimerNo

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