Printing date 06/14/2024

Reviewed on 06/14/2024

l Identification		
· Product identifier		
Trade name: <u>2,4-Dich</u>	orophenol	
• Article number: D4682	)	
• CAS Number: 120-83-2		
• EC number:		
204-429-6		AQUA
• Index number: 604-011-00-7		SOLUTIONS
• Details of the supplier • Manufacturer/Supplier Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 7753	r:	
USA 800-256-2586		
• Information departmen	nt.	
• Information department Technical Coordinator	и.	
Sherman Nelson sherm	ann@aquasolutions.org	
• Emergency telephone		
Chemtrec: 800-424-930 Canutec: 613-996-6660		
<i>Cunuice</i> . 015 <i>9</i> 90 0000	, 	
· Classification of the su	bstance or mixture	
Sec GHS00 Skull	ana crossdones	
Acute Toxicity - Derma	13 H311 Toxic in contact with skin.	<i>l.</i>
GHS08 Heal	th hazard	
Carcinogenicity 1B	H350 May cause cancer.	
GHS05 Corr	osion	
Skin Corrosion 1B	H314 Causes severe skin burns	
Eye Damage 1	H318 Causes serious eye damag	ge.
$\wedge$		
GHS07		
Acute Toxicity - Oral 4	H302 Harmful if swallowed.	
$\checkmark$	H302 Harmful if swallowed.	

Printing date 06/14/2024

Reviewed on 06/14/2024

Trade name: 2,4-Dichlorophenol

· Hazard pictograms	(Contd. of page
$\vee$ $\vee$ $\vee$	
GHS05 GHS06 GHS08	
Signal word Danger	
Hazard statements	
Harmful if swallowed.	
Toxic in contact with skin.	
Causes severe skin burns and eye damage.	
May cause cancer.	
Precautionary statements	
Obtain special instructions before use.	1
Do not handle until all safety precautions have been read and understoo	<i>0a</i> .
Do not breathe dusts or mists.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Wear protective gloves/protective clothing/eye protection/face protection	n.
If swallowed: Call a poison center/doctor if you feel unwell. If swallowed: Rinse mouth. Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rin	so shin with water/shower
If on skin (of hair). Take off immediately all contaminated clothing. Kin IF INHALED: Remove person to fresh air and keep comfortable for brea	
If in eyes: Rinse cautiously with water for several minutes. Remove of	0
Continue rinsing.	contact tenses, if present and easy to a
Immediately call a poison center/doctor.	
IF exposed or concerned: Get medical advice/attention.	
Specific treatment (see on this label).	
Take off immediately all contaminated clothing and wash it before reuse	
Store locked up.	
Dispose of contents/container in accordance with local/regional/nation	al/international regulations.
Classification system:	0
NFPA ratings (scale 0 - 4)	
Health = 3	
Fire = $1$	
3  0  Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
<b>HEALTH</b> *3 Health = $*3$	
FIRE 1 Fire = 1	
$\begin{array}{c} \text{Reactivity} = 0 \end{array}$	
Other hazards	
Other nazaras Results of PBT and vPvB assessment	
<b>PBT:</b> Not applicable.	
<b>vPvB:</b> Not applicable.	
••••••••••••••••••••••••••••••••••••••	

Printing date 06/14/2024

Reviewed on 06/14/2024

Trade name: 2,4-Dichlorophenol

(Contd. of page 2)

### 3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description

CAS: 120-83-2 2,4-Dichlorophenol

- · Identification number(s)
- EC number: 204-429-6
- · Index number: 604-011-00-7

#### **4** First-aid measures

- · Description of first aid measures
- General information:
- Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:
- Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available. • Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

### **5** Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

## **6** Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
  Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Use neutralizing agent.

Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

- See Section 13 for disposal information.
- Protective Action Criteria for Chemicals

• **PAC-1:** 0.2 ppm

(Contd. on page 4)

US

(Contd. of page 3)

## Safety Data Sheet acc. to OSHA HCS

Printing date 06/14/2024

Reviewed on 06/14/2024

Trade name: 2,4-Dichlorophenol

• **PAC-2:** 2 ppm

· PAC-3: 20 ppm

#### 7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

CAS: 120-83-2 2,4-Dichlorophenol

WEEL Long-term value: 1 ppm

Skin; Q

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 5)

(Contd. of page 4)

## Safety Data Sheet acc. to OSHA HCS

Printing date 06/14/2024

Reviewed on 06/14/2024

#### Trade name: 2,4-Dichlorophenol

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### · Eye protection:

Tightly sealed goggles

· Body protection: Protective work clothing

# 9 Physical and chemical properties

· Information on basic physical and cl	nemical properties	
· General Information		
· Appearance:		
Form:	Solid	
Color:	Clear	
· Odor:	Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Not applicable.	
· Change in condition		
Melting point/Melting range:	45 °C (113 °F)	
Boiling point/Boiling range:	208 °C (406.4 °F)	
· Flash point:	114 °C (237.2 °F)	
· Flammability (solid, gaseous):	Product is not flammable.	
· Decomposition temperature:	Not determined.	
· Ignition temperature:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	0.1 hPa	
• Vapor pressure at 50 °C (122 °F):	$1.1 \ hPa \ (0.8 \ mm \ Hg)$	
• Density at 20 °C (68 °F):	1.383 g/cm <sup>3</sup> (11.54114 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
<i>Water at 20 °C (68 °F):</i>	4.5 g/l	
· Partition coefficient (n-octanol/water	r): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
		(Contd. on page 6

-----------------------US

(Contd. of page 5)

## Safety Data Sheet acc. to OSHA HCS

Printing date 06/14/2024

Reviewed on 06/14/2024

Trade name: 2,4-Dichlorophenol

Kinematic:

Not applicable.

· Other information

No further relevant information available.

#### **10 Stability and reactivity**

· Reactivity No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

• *Conditions to avoid* No further relevant information available.

• *Incompatible materials:* No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

### **11 Toxicological information**

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral LD50 500 mg/kg (ATE)

Dermal LD50 300 mg/kg (ATE)

- · Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

· Sensitization: No sensitizing effects known.

• Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

- · IARC (International Agency for Research on Cancer) 2B
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

#### **12 Ecological information**

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Assessment by list): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even extremely small quantities leak into the ground.

(Contd. on page 7)

Printing date 06/14/2024

Reviewed on 06/14/2024

Trade name: 2,4-Dichlorophenol

(Contd. of page 6)

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

# **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation:

\*

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

· UN-Number	10/2029
DOT, IMDG, IATA	UN2928
UN proper shipping name	
- DOT - IMDG, IATA	Toxic solids, corrosive, organic, n.o.s. (2,4-Dichlorophenol) TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S. (2, Dichlorophenol)
• Transport hazard class(es)	
DOT	
TOXIC 8 8	
· Class	6.1 Toxic substances
· Label	6.1, 8
· Class	6.1 Toxic substances
· Label	6.1/8
IATA	
· Class	6.1 Toxic substances
- Label	6.1 (8)
Packing group DOT, IMDG, IATA	III

Printing date 06/14/2024

Reviewed on 06/14/2024

Trade name: 2,4-Dichlorophenol

	(Contd. of page
Marine pollutant:	Symbol (fish and tree)
· Special precautions for user	Warning: Toxic substances
· Hazard identification number (Kemler code)	: 60
· EMS Number:	F-A,S-B
· Stowage Category	В
· Stowage Code	SW2 Clear of living quarters.
· Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 L
Hazardous substance:	100 lbs, 45.4 kg
· IMDG	
· Limited quantities (LQ)	5L
$\cdot$ Excepted quantities ( $\widetilde{EQ}$ )	Code: El
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
· UN ''Model Regulation'':	UN 2928 TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S. (2,4
č	DICHLOROPHENOL), 6.1 (8), III

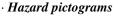
## **15 Regulatory information**

· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara

- Section 355 (extremely hazardous substances): Substance is not listed.
- · Section 313 (Specific toxic chemical listings): Substance is listed.
- · TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.

· Proposition 65

- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).





• Signal word Danger • Hazard statements

Harmful if swallowed.

(Contd. on page 9)

US

Printing date 06/14/2024

\*

1

06/14/2024 / 1.0

Reviewed on 06/14/2024

#### Trade name: 2,4-Dichlorophenol

	(Contd. of page 8)
Toxic in contact with skin.	
Causes severe skin burns and eye damage.	
May cause cancer.	
· Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Do not breathe dusts or mists.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Call a poison center/doctor if you feel unwell.	
If swallowed: Rinse mouth. Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
<i>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</i>	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present	and easy to do
Continue rinsing.	una easy to ao.
Immediately call a poison center/doctor.	
<i>IF exposed or concerned: Get medical advice/attention.</i>	
Specific treatment (see on this label).	
Take off immediately all contaminated clothing and wash it before reuse.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations	<i>š</i> .
· National regulations:	
· Additional classification according to Decree on Hazardous Materials:	
Carcinogenic hazardous material group I (extremely dangerous).	
Carcinogenic hazardous material group II (very dangerous).	
Carcinogenic hazardous material group III (dangerous).	
· Information about limitation of use:	
Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the	ie authorities in
certain cases.	
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	
16 Other information	
This information is based on our present knowledge. However, this shall not constitute a gue	arantee for any
specific product features and shall not establish a legally valid contractual relationship.	5 5
• Department issuing SDS: Environment protection department.	
· Contact:	
Date of Preparation / Last Revision:	
· Date of preparation / last revision	
Revision 0.1, 06/14/2024: Reviewed SDS for accuracy. MH/STN	
Revision 0.0, 05-29-2024: Creation date for SDS. STN	
06/14/2024/10	

 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

(Contd. on page 10)

<sup>-</sup> US

Printing date 06/14/2024

Reviewed on 06/14/2024

#### Trade name: 2,4-Dichlorophenol

NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Toxicity - Oral 4: Acute toxicity - Category 4 Acute Toxicity - Dermal 3: Acute toxicity - Category 3 Skin Corrosion 1B: Skin corrosion/irritation - Category 1B Eye Damage 1: Serious eye damage/eye irritation - Category 1 Carcinogenicity 1B: Carcinogenicity - Category 1B • \* Data compared to the previous version altered. (Contd. of page 9)

· US ·