### **Safety Data Sheet**

# Free chlorine DPD on-site reagent kit

Version: V2.0.0.1

Report No.: BWS3056-MSDS-US Creation Date: 2025/11/20

Revision Date: -



### \*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

1	Identification
	Tuerillillealion

### | Product identifier

Product Name	Free chlorine DPD on-site reagent kit
Cat No.	BWS3056
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

### Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

### Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

### | Emergency phone number

Emergency phone number	010-58103678

# 2 Hazard(s) identification

### Hazard classification according to 29 CFR 1910.1200

Acute Toxicity - Oral	Category 4
Skin Corrosion/Irritation	Category 2
Serious eye damage/irritation	Category 2
Specific target organ toxicity -	Category 3
single exposure; respiratory	
tract irritation	

### Label elements

Ingestion

Eye

Redness.

Redness. Pain.

**Skin Contact** 

Abdominal pain. Vomiting. Diarrhoea. Nausea.

#### 2 / 10

### Environmental hazards

Please refer to 12th chapter of SDS.

Version: V2.0.0.1 Revision Date: -

## 3 Composition/information on ingredients

#### Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
EDTA disodium salt dihydrate	6381-92-6	613-386-6	10.2
Disodium hydrogenorthophosphate	7558-79-4	231-448-7	5.7
Potassium dihydrogenorthophosphat e	7778-77-0	231-913-4	55.69
N,N-diethylbenzene-1,4-di ammonium sulphate	6283-63-2	228-500-6	28.41

# 4 First-aid measures

### Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Skin contact	Rinse skin with plenty of water or shower.
Ingestion	Rinse mouth. Give plenty of water to drink.
Inhalation	Fresh air, rest.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

### Most important symptoms/effects, acute and delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

### Indication of any immediate medical attention and special treatment needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

## Fire-fighting measures

### | Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

### Specific hazards arising from the substance or mixture

1	Development of hazardous combustion gases or vapor possible in the event of fire.
_	

#### 2 May expansion or decompose explosively when heated or involved in fire.

### Special protective equipment and precautions for fire-fighters

Free	chlorine DPD on-site reagent kit Version : V2.0.0.1 Revision Date : -
1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.
6	Accidental release measures
Per	sonal precautions, protective equipment and emergency procedures
1	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
2	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
3	Use personal protective equipment,do not breathe dust/fume.
Env	vironmental precautions
1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.
Me	thods and materials for containment and cleaning up
1	Cut off the source of the leak as much as possible.
2	Keep leaks in a ventilated place.
3	Isolation of contaminated areas and restrictions on access.
4	It is recommended that emergency personnel wear dust masks.
5	Collect the spill with a clean shovel and place it in a clean, dry, loosely closed container and move the container away from the leak.
6	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
7	Handling and storage
Pre	cautions for safe handling
1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.
4	Keep away from heat/sparks/open flames/ hot surfaces.
Coi	nditions for safe storage, including any incompatibilities
1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.

1	keep containers tightly closed.	
2	Keep containers in a dry, cool and well-ventilated p	lace.

3 Keep away from heat/sparks/open flames/hot surfaces.

Store away from incompatible materials and foodstuff containers.

# 8 Exposure controls/personal protection

### | Control parameters

◆ Occupational exposure limit values

Occupational Exposure limit	No relevant regulations
values	

### | Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

### | Personal protection equipment

General requirement	
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear appropriate chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes.

## 9 Physical and chemical properties and safety characteristics

### | Physical and chemical properties

Appearance (physical state,	white or slightly brown powder
color, etc.)	
Odor	No information available
Odor threshold	No information available
рН	4.4 ( 20°C, 50g/L,Potassium dihydrogenorthophosphate )
Melting point/freezing point(°C)	253 ( Potassium dihydrogenorthophosphate )
Initial boiling point and boiling	>449.85 ( 101325 Pa,Potassium dihydrogenorthophosphate )
range(°C)	
Flash point(Closed cup,°C)	Not applicable
Evaporation rate	Not applicable
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit: No information available; Lower limit: No information available
Vapor pressure	4.5E-15Pa ( 25°C,Potassium dihydrogenorthophosphate )
Vapor density(Air = 1)	Not applicable
Relative density(Water=1)	2.34 ( Potassium dihydrogenorthophosphate )
Solubility	220 g/L ( Potassium dihydrogenorthophosphate )
n-octanol/water partition	No information available
coefficient	
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Kinematic viscosity	Not applicable
	I.

## 10 Stability and reactivity

#### Stability and reactivity

otability and reactivity		
Reactivity Contact with incompatible substances can cause decomposition or oth		
	chemical reactions.	
Chemical stability	Stable under proper operation and storage conditions.	

Possibility of hazardous reactions	No information available.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	No information available.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

# 11 Toxicological information

### Acute toxicity

Component	LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
Disodium hydrogenorthophosphate	17000mg/kg(Rat)	No information available	No information available
Potassium dihydrogenorthophospha te	No information available	> 4640mg/kg(Rabbit)	No information available

### | Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
EDTA disodium salt	Not Listed	Not Listed	Not Listed
dihydrate			
Disodium	Not Listed	Not Listed	Not Listed
hydrogenorthophosphate			
Potassium	Not Listed	Not Listed	Not Listed
dihydrogenorthophosphat			
е			
N,N-diethylbenzene-1,4-di ammonium sulphate	Not Listed	Not Listed	Not Listed

### Others

Free chlorine DPD on-site reagent kit		
Skin corrosion/irritation Causes skin irritation(Category 2)		
Serious eye damage/irritation	Causes serious eye irritation(Category 2)	
Skin sensitization	Based on available data, the classification criteria are not met	
Respiratory sensitization	Based on available data, the classification criteria are not met	
Reproductive toxicity	Based on available data, the classification criteria are not met	
STOT-single exposure	May cause respiratory irritation(Category 3)	
STOT-repeated exposure	Based on available data, the classification criteria are not met	
Aspiration hazard	Based on available data, the classification criteria are not met	
Germ cell mutagenicity	Based on available data, the classification criteria are not met	

# Ecological information

### | Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic
			plants
Disodium	LC <sub>50</sub> : > 100mg/L	EC <sub>50</sub> : > 100mg/L	ErC <sub>50</sub> : > 100mg/L
hydrogenorthophosphate	(96h)(Fish)	(48h)(Crustaceans)	(72h)(Algae)

Potassium	LC <sub>50</sub> : > 100mg/L	EC <sub>50</sub> : > 100mg/L	ErC <sub>50</sub> : > 100mg/L
dihydrogenorthophospha	(96h)(Fish)	(48h)(Crustaceans)	(72h)(Algae)
te			

### Chronic aquatic toxicity

Chronic aquatic toxicity No information available

### Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
EDTA disodium salt	Low	Low
dihydrate		

### Bioaccumulative potential

Component	Bioaccumulative potential	Comments
EDTA disodium salt	Low	Log Kow=-3.8573
dihydrate		

### | Mobility in soil

Component	log Koc	Remark
EDTA disodium salt	3.020	
dihydrate		

## 13 Disposal considerations

### Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and		
	regulation. Recommend the use of incineration disposal.		
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.		
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.		

## 14 Transport information

### Label and Mark

Transporting Label Not applicable

#### IMDG-CODE

IMDG-CODE NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### IATA-DGR

IATA-DGR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### UN-ADR

UN-ADR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### Transport in bulk according to IMO instruments

◆ Transport in bulk according to Annex II of MARPOL and the IBC code

Not Available

◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

◆ Transport in bulk in accordance with the IGC Code

Not Available

#### Others

Precautions for transport

Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

Version: V2.0.0.1 Revision Date: -

## 15 Regulatory information

### International chemical inventory

Component	Α	В	С	D	Е	F	G	Н	I	J	K	L	M
EDTA disodium salt dihydrate	1	×	×	<b>√</b>	√	√	×	√	1	<b>V</b>	<b>√</b>	<b>√</b>	<b>√</b>
Disodium hydrogenorthophosphate	V	1	1	V	1	1	<b>√</b>	1	<b>√</b>	V	V	V	V
Potassium dihydrogenorthophosphat e	√	√	√	V	√	√	V	√	V	V	V	V	V
N,N-diethylbenzene-1,4-di ammonium sulphate	√	√	×	×	<b>√</b>	√	×	<b>√</b>	×	×	×	<b>√</b>	<b>√</b>

- [A] China Inventory of Existing Chemical Substances(IECSC)
- [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
- [C] United States Toxic Substances Control Act Inventory(TSCA)
- [D] Canadian Domestic Substances List(DSL)
- [E] New Zealand Inventory of Chemicals(NZloC)
- [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
- [G] Korea Existing Chemicals Inventory(KECL)
- [H] Australian. Inventory of Industrial Chemical (AIICS)
- [1] Japan Inventory of Existing & New Chemical Substances(ENCS)
- [J] Thailand Existing Chemicals Inventory(TECI)
- [K] Mexico National Inventory of Chemical Substances (INSQ)
- [L] Russia Inventory of Existing Substances (DRAFT)
- [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

### List of Chemical Substances under International Conventions

Component	Α	В	С
EDTA disodium salt dihydrate	×	×	×
Disodium hydrogenorthophosphate	×	×	×
Potassium dihydrogenorthophospha te	×	×	×
N,N-diethylbenzene-1,4-di ammonium sulphate	×	×	×

- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
- [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
- [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

### **US chemical inventory**

Component	Α	В	С	D	Е	F	G	Н
EDTA disodium salt dihydrate	×	×	×	×	×	×	×	×
Disodium hydrogenorthophosphat e	×	×	<b>√</b>	<b>√</b>	<b>√</b>	V	V	×
Potassium dihydrogenorthophosph ate	×	×	×	×	×	×	×	×
N,N-diethylbenzene-1,4- diammonium sulphate	×	×	×	×	×	×	×	×

- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B] US SARA 302- Extremely Hazardous Substance List
- [C] US CERCLA- Hazardous Substances List
- [D] US Massachusetts Right-to-Know Substance List
- [E] US New Jersey Right to Know Hazardous Substance List
- [F] US Pennsylvania Right to Know Hazardous Substance List
- [G] US New York City Right-to-Know Hazardous Substance List
- [H] US California Proposition 65 List

#### Note:

- " $\sqrt{\phantom{a}}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

# 16 Other information

### Information on revision

•	
Creation Date	2025/11/20
Revision Date	-
Reason for revision	-

### Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- [5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- [7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

### Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-ST	EL Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TW	/A Time Weighted Average	IMDG- CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
$LC_{50}$	Lethal Concentration 50%	NFPA	National Fire Protection Association
$LD_{50}$	Lethal Dose 50%	NTP	National Toxicology Program
$EC_{50}$	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
$EC_X$	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
Pow	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment

ED Endocrine disruptor HCS Hazard Communication Standard

### Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

Version: V2.0.0.1 Revision Date: -