



DoxyKlor

SAFETY DATA SHEET



1. IDENTIFICATION

1.1 Product identifier

Trade name	Disease Control Solutions, LLC
Manufactured by	DoxyKlor
Product code	DK5G-500
Other means of identification	Active Chlorine Dioxide

1.2 Recommended use and restriction on use

Recommended use	Sanitizer, Disinfectant, Deodorizer, Biocide
Restrictions on use	No relevant information available.

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier	PI Industries, Inc. 8275 S. Eastern Avenue, Suite #200-882 Las Vegas, NV 89123-2545 USA (858) 736-6617
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1.4 Emergency telephone number

For chemical spill information call CHEMTREC	1-800-424-9300
For emergency medical information, call the National Pesticide Information Center	1-800-858-7378



2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

2.2 Label elements

The product is not classified as hazardous according to OSHA GHS regulations within the United States.

2.3 GHS label elements

None.

2.4 Hazard pictograms

None.

2.5 Signal word

None.

2.6 Hazard statements

None.

2.7 Precautionary statements

None.

2.8 Other hazards

There are no other hazards not otherwise classified that have been identified.





3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterization

Mixtures

3.2 Components

10049-04-4	Chlorine dioxide	<0.1%
	 Acute Tox. 3, H301  Skin Corr. 1B, H314; Eye Dam. 1, H318	

3.3 Additional information

For the wording of the listed Hazard Statements, refer to section 16.

4. FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

After inhalation	Supply fresh air; consult doctor in case of complaints
After skin contact	Immediately rinse with water. Remove any clothing soiled by the product. If skin irritation is experienced, consult a doctor.
After eye contact	Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing	Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.
Most important symptoms and effects, both acute and delayed	No relevant information available.
Indication of any immediate medical attention and special treatment needed	If medical advice is needed, have product container or label at hand.



5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents	The product is not flammable. Use firefighting measures that suit the environment.
For safety reasons unsuitable extinguishing agents	No relevant information available.
Special hazards arising from the substance or mixture	Formation of toxic gases is possible during heating or in case of fire.

5.2 Advice for firefighters

Protective equipment	Wear self-contained respiratory protective device. Wear fully protective suit.
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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use personal protective equipment as required.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Wipe up small spills with paper towel and discard.
For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard.
Dispose of the collected material according to regulations.

6.3 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.



7. HANDLING AND STORAGE

7.1 Handling

7.2 Precautions for safe handling

Open and handle receptacle with care.
Keep out of reach of children.
Avoid contact with the eyes and skin.

7.3 Conditions for safe storage, including any incompatibilities

7.4 Requirements to be met by storerooms and receptacles

Store in cool, dry conditions in well-sealed receptacles.
Do not allow product to freeze.
Avoid storage near extreme heat.
Store only in the original receptacle.

7.5 Information about storage in one common storage facility

Store away from foodstuffs.
Do not store together with acids.
Do not store together with alkalis (caustic solutions).
Store away from flammable substances.

7.6 Further information about storage conditions

Protect from exposure to the light.

7.7 Specific end use(s)

No relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components with limit values that require monitoring at the workplace

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.

Engineering controls

No relevant information available.

Breathing equipment

Use suitable respiratory protective device when aerosol or mist is formed.

Protection of hands



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eye protection



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear

Body protection

Protection may be required for spills.

8.3 Limitation and supervision of exposure into the environment

Avoid release to the environment.

8.4 Risk management measures

No special requirements.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	
Form	Liquid.
Color	Yellow
Odor	Characteristic
Odor threshold	Not determined.
pH-value	2.1
Melting point/Melting range	Not determined.
Boiling point/Boiling range	100 °C (212 °F)
Flash point	Not applicable.
Flammability (solid, gaseous)	Not applicable.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined.
Danger of explosion	Product does not present an explosion hazard.
Explosion limits	
Lower	Not determined.
Upper	Not determined.
Oxidizing properties	Non-oxidizing.
Vapor pressure at 20 °C (68 °F)	23 hPa (17.3 mm Hg)
Density	
Relative density	1.0
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water	Fully miscible.
Partition coefficient (n-octanol/water)	Not determined.
Viscosity	
Dynamic	Not determined.
Kinematic	Not determined.
Other information	No relevant information available.



10. STABILITY AND REACTIVITY

Reactivity	No relevant information available
Chemical stability	Stable under normal temperatures and pressures.
Thermal decomposition /conditions to be avoided	No decomposition if used and stored according to specifications.
Possibility of hazardous reactions	Toxic fumes may be released if heated above the decomposition point. Reacts with strong acids.
Conditions to avoid	Avoid acids. Protect from sunlight.
Incompatible materials	Acids. Alkalis. Flammable materials.
Hazardous decomposition products	Chlorine compounds

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
LD/LC50 values that are relevant for classification	None.
Primary irritant effect On the skin On the eye	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
Sensitization	Based on available data, the classification criteria are not met.

11.2 Carcinogenic categories

IARC (International Agency for Research on Cancer)	None of the ingredients are listed.
NTP (National Toxicology Program)	None of the ingredients are listed.
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients are listed.



Probable route(s) of exposure	Ingestion. Inhalation. Eye contact. Skin contact
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	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	Based on available data, the classification criteria are not met.
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.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity	Norelevant information available.
Persistence and degradability	Norelevant information available.
Bioaccumulative potential	Norelevant information available.
Mobility in soil	Norelevant information available.
Other adverse effects	Norelevant information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and Containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.



13.2 Uncleaned packaging

Recommendation:

Disposal must be made according to official regulations

14. TRANSPORT INFORMATION

UN-Number	
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.
UN proper shipping name	
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.
Transport hazard class(es)	
DOT, ADR/RID/ADN, IMDG, IATA Class	Not regulated.
Packing group	
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.
Environmental hazards	
Marine pollutant	No.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

15. REGULATORY INFORMATION

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

United States (USA)

SARA

Section 302 (extremely hazardous substances)	None of the ingredients are listed.
Section 313 (Specific toxic chemical listings)	None of the ingredients are listed.
TSCA (Toxic Substances Control Act)	All ingredients are listed or exempt.



15.1 Proposition 65 (California)

Chemicals known to cause cancer

None of the ingredients are listed.

Chemicals known to cause developmental toxicity for females

None of the ingredients are listed.

Chemicals known to cause developmental toxicity for males

None of the ingredients are listed.

Chemicals known to cause developmental toxicity

None of the ingredients are listed.

EPA (Environmental Protection Agency)

None of the ingredients are listed.

Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Harmful if swallowed, absorbed through the skin, or inhaled. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, smoking, or using the toilet.

IARC (International Agency for Research on Cancer)

None of the ingredients are listed



16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

Date of preparation / last revision

May 01, 2020 / -

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Code for Dangerous Goods
DOT	US Department of Transportation
IATA	International Air Transport Association
CAS	Chemical Abstracts Service (division of the American Chemical Society)
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
OSHA	Occupational Safety & Health Administration
TLV	Threshold Limit Value
PEL	Permissible Exposure Limit
REL	Recommended Exposure Limit
Acute Tox. 3	Acute toxicity – Category 3
Skin Corr. 1B	Skin corrosion/irritation – Category 1B
Eye Dam. 1:	Serious eye damage/eye irritation – Category 1

Sources

Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed.
ISBN: 978-0-470-07488-6
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.
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