Safety Data Sheet

according to Regulation (EU) 2020/878

Date of issue: 26.04.2023 Revision date: 22.04.2024 Version / Replaced version: 3.0 / 2.0 SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Mixture : DK-DOX[®] Fertiglösung (sf) Product name DK-DOX® 150 (sf), DK-DOX® 200 (sf), DK-DOX® 1500 (sf), DK-DOX® AKTIV BASIC (sf), DK-DOX® AKTIV MOBIL (sf), DK-DOX® FRESH (sf), DK-DOX® SURFACE (sf), DK-DOX® Chlordioxidlösung < 0,3% (sf) Other names : E 926, Chlorine(IV) oxide : M500-C029-G00E-DYAE UFI 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. **Relevant identified uses** Main use category : Industrial use. Professional use. General public. : Disinfectants Use of the substance/mixture Uses advised against 1.2.2. No additional information available 1.3. Details of the supplier of the safety data sheet Manufacturer/Supplier Dr. Küke GmbH Langer Acker 33 30900 Wedemark - Germany T +49 (0) 5130 97196-0 info@kueke.de - www.kueke.de Safety Data Sheet: DLAC Dienstleistungsagentur Chemie GmbH, E-mail: sds@dlac-gmbh.de **Emergency telephone number** 1.4. Country Organisation/Company Address **Emergency number** Giftinformationszentrum (GIZ-Nord) Robert-Koch Strasse 40 +49 551 19240 Germany Universitätsmedizin Göttingen - Georg-August-Universität D-37075 Göttingen (German/English)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH phrases : EUH210 - Safety data sheet available on request

2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Chlorine dioxide %	(CAS no) 10049-04-4 (EC no) 233-162-8 (EC index no) 017-026-01-0 (REACH no) 01-2119492305-37-xxxx	< 0.3	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10)

R. KUEKE

ORINE DIOXIDE

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Name	Product identifier	Specific concentration limits according to Regulation (EC) No. 1272/2008 [CLP]
Chlorine dioxide %	(CAS no) 10049-04-4 (EC no) 233-162-8 (EC index no) 017-026-01-0 (REACH no) 01-2119492305-37-xxxx	$(0.3 \le C < 3)$ Eye Irrit. 2, H319 $(1 \le C < 5)$ Skin Irrit. 2, H315 $(3 \le C < 5)$ Eye Dam. 1, H318 $(C \ge 3)$ STOT SE 3, H335 $(C \ge 5)$ Skin Corr. 1B, H314

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position. Evacuate personnel to a safe area. Do not leave affected person unattended.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth. Drink plenty of water as a precaution. Do NOT induce vomiting.
4.2. Most important symptoms and eff	ects, both acute and delayed
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Indication of any immediate media	al attention and special treatment needed
Treat symptomatically. IF SWALLOWED: gast	ic lavage. Treat as a burn.
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing agents that suit the environment. Water spray.

Suitable extinguishing media	: Use extinguishing agents that suit the environment. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the su	bstance or mixture
Fire hazard	: Heating will cause a rise in pressure with a risk of bursting.
Hazardous decomposition products in case of fire	: Chlorine. Chlorine dioxide. Oxygen.
5.3. Advice for firefighters	
Precautionary measures fire	: In case of fire and/or explosion do not breathe fumes. Move containers away from the fire area if this can be done without risk.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective ed	uipment and emergency procedures
General measures	: Provide adequate ventilation.
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required. Use self-contained breathing apparatus.
6.2. Environmental precautions	
Prevent liquid from entering sewers, watercours	es, underground or low areas. Prevent entry to sewers and public waters.
6.3. Methods and material for containm	ent and cleaning up
Methods for cleaning up	: Wipe up with absorbent material (for example cloth). Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Keep in suitable, closed containers for disposal. Dispose of in accordance with relevant local regulations. Use neutralisation products.

6.4. **Reference to other sections**

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13. Concerning conditions for handling and storage, see section 7.

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: Provide adequate ventilation. Do not breathe gas/vapour/aerosol. Avoid contact with skin and eyes. Keep container tightly closed. Protect from heat and direct sunlight. Avoid letting the product become dry. Wear personal protective equipment.
: Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash it before reuse.
any incompatibilities
: Store in original container. Store in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from heat and direct sunlight. Protect against frost.
: Keep away from food, drink and animal feedingstuffs. Store separated from acids, reducing agents, sulfur compounds, combustible materials.

Specific end use(s) 7.3. No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters			
Chlorine (7782-50-5)			
EU	Local name		Chlorine
EU	IOELV STEL (mg	g/m³)	1.5 mg/m³
EU	IOELV STEL (pp	m)	0.5 ppm
Ireland	Local name		Chlorine
Ireland	OEL (15 min ref)	(mg/m ³)	1.5 mg/m³
Ireland	OEL (15 min ref)	(ppm)	0.5 ppm
Ireland	Notes (IE)		IOELV
Malta	Local name		Chlorine
Malta	OEL STEL (mg/r	n³)	1.5 mg/m ³
Malta	OEL STEL (ppm)	0.5 ppm
Chlorine dioxide % (10049-04-4)			
Ireland	Local name		
Ireland	OEL (15 min ref)	(ppm)	0.1 ppm
Chlorine dioxide % (10049-04-4)			
DNEL/DMEL (Workers)			
Long-term - local effects, inhal	ation 0.304 mg/m ³		
PNEC (Water)			
PNEC aqua (freshwater)	0.000021 mg/l		
PNEC aqua (marine water) 0.000021 mg/l			
PNEC aqua (intermittent, freshwater) 0.0002 mg/l			
PNEC (STP)			
PNEC sewage treatment plant 0.1 mg/l			
8.2. Exposure controls			

Appropriate engineering controls:

Provide local exhaust or general room ventilation to minimize vapour concentrations.

Hand protection:

Avoid skin contact. Wear suitable gloves. (EN 374). PVC. Polyethylene. 0.5 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Avoid contact with eyes. Chemical goggles or safety glasses (EN 166).

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

No respiratory protection needed under normal use conditions. If the occupational exposure limit is exceeded: Gas mask with filter type B. (EN 14387)

Environmental exposure controls:

Avoid release to the environment.

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according to Regulation (EU) 2020/878	
SECTION 9: Physical and chemical p	
9.1. Information on basic physical and ch	nemical properties
Physical state	: Liquid
Colour	: Yellowish
Odour	: Slightly pungent; Odour threshold: ≈ 0.1 ppm
Melting point/freezing point	: 0 °C
Boiling point or initial boiling point and boiling range	: 100 °C
Flammability	: No data available
Lower and upper explosion limit	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: >45 °C
pH	: 7 (on production, the pH value drops to pH > 2 - < 7 over the storage period)
Kinematic viscosity	: No data available
Solubility	: Water: completely miscible
Partition coefficient n-octanol/water (log value)	: Not applicable
Vapour pressure	: ≈ 14 mbar (20 °C)
Density and/or relative density	\therefore 1 g/cm ³ (20 °C)
Relative vapour density	: No data available
Particle characteristics	: Not applicable
9.2. Other information	
9.2.1. Information with regard to physical h	azard classes
· · · · · ·	
Explosive properties	: Product is not explosive.
Explosive properties Oxidising properties 9.2.2. Other safety characteristics No additional information available	 Product is not explosive. Product is not oxidising.
Explosive properties Oxidising properties 9.2.2. Other safety characteristics No additional information available SECTION 10: Stability and reactivity	·
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Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
	Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated	: Not classified
exposure)	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
	Based on available data, the classification criteria are not met
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties	
Endocrine disruption for human health	: The mixture has no endocrine disrupting properties.
·	
11.2.2. Other information	. Beaad on quailable data the algorification with the survey at most
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met
SECTION 12: Ecological information	
12.1. Toxicity	
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
Chlorine dioxide % (10049-04-4)	
LC50 fish	0.021 mg/l 96 h, Danio rerio
EC50 daphnia	0.063 mg/l 48 h, Daphnia magna
EC50 algae	1.096 mg/l 72 h, Raphidocelis subcapitata
NOEC daphnia	0.015 mg/l 22 d, Daphnia magna
NOEC algae	0.02 mg/l 72 h, Raphidocelis subcapitata
EC50 microorganisms	10.7 mg/l 3 h, activated sludge (OECD 209)
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessme	
•	xic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
12.6. Endocrine disrupting properties	
Endocrine disruption for the environment	: The substance/mixture has no endocrine disrupting properties.
12.7. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideratio	ns
13.1. Waste treatment methods	
Regional legislation (waste)	: Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods	 Do not dispose of with domestic waste. Do not empty into drains. Avoid letting the product become dry.
Product/Packaging disposal recommendations	: When totally empty, containers are recyclable like any other packing.
European List of Waste (LoW) code	 15 00 00 - WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED 15 01 00 - packaging (including separately collected municipal packaging waste) 15 01 10* - packaging containing residues of or contaminated by dangerous substances 06 00 00 - WASTES FROM INORGANIC CHEMICAL PROCESSES 06 13 00 - wastes from inorganic chemical processes not otherwise specified

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Waste code number

: The valid EWC waste code numbers are source related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users.

SECTION 14: Transport information	
In accordance with IATA / IMDG / ADR	
14.1. UN number or ID number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
- Overland transport	
Not applicable	
- Transport by sea	
Not applicable	
- Air transport	
Not applicable	
14.7. Maritime transport in bulk according	g to IMO instruments
Not applicable	
SECTION 15: Regulatory information	h
	gulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations Contains no substance on the REACH candidate	
Contains no REACH Annex XIV substances	
15.1.2. National regulations No additional information available	
15.2. Chemical safety assessment	this mixture were not corriad out
Chemical safety assessments for substances in	
SECTION 16: Other information	
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
22.04.2024	EN (English) 6/7

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Changes compared to the previous version : Section 9.1

Classification and procedure used to derive the classification of mixtures according to Regulation (EC) No. 1272/2008 [CLP]:

Not classified Calculation method

Abbreviations and	d acronyms:
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA	International Air Transport Association
IMDG	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
STP	Sewage Treatment Plant
UFI	Unique Formula Identifier
vPvB	Very Persistent and Very Bioaccumulative

Full text of H- and EUH-statements:

Acute toxicity (oral), Category 3		
Hazardous to the aquatic environment — Acute Hazard, Category 1		
Serious eye damage/eye irritation, Category 1		
Serious eye damage/eye irritation, Category 2		
Skin corrosion/irritation, Category 1B		
Skin corrosion/irritation, Category 2		
Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation		
Toxic if swallowed		
Causes severe skin burns and eye damage		
Causes skin irritation		
Causes serious eye damage		
Causes serious eye irritation		
May cause respiratory irritation		
Very toxic to aquatic life		
Safety data sheet available on request		

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.