milwaukee		kee Electronics Kft.	Date Printe Page	sion nr.5 d 02/03/2023 d on 06/03/2022 n. 1 / 10 aced revision:4 (Dated 15/11/2022)	
	DPD3 -	- Chlorine Reagent	3 Repla	aced revision:4 (Dated 15/11/2022)	
	According to Annex I	Safety Data She		REACH	
SECTION 1. Identificati	ion of the substar	nce/mixture and of the con	npany/undertakir	ng	
1.1. Product identifier					
Code Product name		DPD3 Chlorine Reagent 3			
1.2. Relevant identified uses of t	the substance or mixtur	e and uses advised against			
Intended use		Determination of Total Chlorine in	Water Samples.		
1.3. Details of the supplier of the	e safety data sheet				
Name Full address District and Country		Milwaukee Electronics Kft. Alsókikötő sor 11. H6726 Szeged Hungary Tel. +36-62-428-050 Fax +36-62-428-051			
e-mail address of the competer responsible for the Safety Date responsible for the Safety Date responsible for the Safety Date response respo		info@milwaukeeinst.com			
I.4. Emergency telephone num	ber				
For urgent inquiries refer to		Austria tel.: +431 406 43 43 - Belgi 9154409 - Czech Republic tel.: +42 8212 12 12 - Estonia tel.: 112 - Fin (exchange) - France tel. ORFILA (1 8092166 - Lithuania tel.: +370 5 23 0000,Medicines & Poisons Info Off Portugal tel.: 808 250 143 - Romar +421 2 5477 4166 - Spain tel.: + 34 (9:00-17:00)	20 224 919 293, +420 land tel.: (09) 471 977 NRS) : + 33 (0)1 45 42 6 20 52, +370 687 533 ice tel.: 2545 6504 - N iia tel. 021.318.36.06 (224 915 402 - Denmark tel.: (direct) or (09) 4711 2 59 59 - Ireland tel.: 01 378 - Malta tel: 2545 orway tel.:22 59 13 00 - 8:00 – 15:00) – Slovakia tel.:	
SECTION 2. Hazards identificat	ion				
2.1. Classification of the substar	nce or mixture				
amendments and supplemen 2020/878.	ts). The product thus re	ne provisions set forth in (EC) Regu equires a safety datasheet that com ealth and/or the environment are giv	blies with the provision	s of (EU) Regulation	
Hazard classification and ind Specific target organ toxic category 1		е, Н372	Causes damage to or repeated exposure.	gans through prolonged or	
2.2. Label elements					
Hazard labelling pursuant to	EC Regulation 1272/20	08 (CLP) and subsequent amendm	ents and supplements.		
Hazard pictograms:					
Signal words:	Danger				
Hazard statements: H372	Causes damage to o	organs through prolonged or repeat	ed exposure.		

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SECTION 2. Hazards ident	ification/>>	
Precautionary statements: P260 P280 P312 P362	Do not breathe dust, fume, gas, mist, vapours, spray. Wear protective gloves / clothing. Call a POISON CENTRE or doctor, if you feel unwell. Take off contaminated clothing.	
Contains:	POTASSIUM IODIDE	
2.3. Other hazards		
On the basis of available da	ta, the product does not contain any PBT or vPvB in percentage \geq than 0	0,1%.
The product does not contain	in substances with endocrine disrupting properties in concentration ≥ 0.1	%.
SECTION 3. Composition/infor	mation on ingredients	
3.2. Mixtures		
Contains:		
Identification	x = Conc. % Classification (EC) 1272/2008 (CLP)	
POTASSIUM IODIDE INDEX EC 231-659-4 CAS 7681-11-0 REACH Reg. 01-2119906 The full wording of hazard (I	$10 \le x < 30$ STOT RE 1 H372 3339-35 H) phrases is given in section 16 of the sheet.	
SECTION 4. First aid r		
4.1. Description of first aid mea		
EYES: Remove contact le persists, seek medical advic SKIN: Remove contamina contaminated clothing befor INHALATION: Remove to o	nses, if present. Wash immediately with plenty of water for at least 15 m te. ted clothing. Wash immediately with plenty of water. If irritation pers e using it again. pen air. In the event of breathing difficulties, get medical advice/attention i advice/attention. Induce vomiting only if indicated by the doctor. Never	sists, get medical advice/attention. Wash mmediately.
4.2. Most important symptoms	and effects, both acute and delayed	
Specific information on symp	ptoms and effects caused by the product are unknown.	
4.3. Indication of any immediat	e medical attention and special treatment needed	
Information not available		
SECTION 5. Firefightin	ng measures	
5.1. Extinguishing media		
SUITABLE EXTINGUISHIN The extinguishing equipmen UNSUITABLE EXTINGUISH	t should be of the conventional kind: carbon dioxide, foam, powder and w	ater spray.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

POTASSIUM IODIDE Hydrogen iodide, Potassium oxides.

None in particular.



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SECTION 5. Firefighting measures / >>

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

6.1C

Storage class TRGS 510 (Germany):

България

TLV-ACGIH

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.) АССІН 2021

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SECTION 8. Exposure controls/personal protection ..../>>

### POTASSIUM IODIDE

Threshold Limit Va	alue								
Туре	Country	TWA/8h		STEL/15	min	Remarks	Observations		
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	5							
TLV-ACGIH			0,01						
Predicted no-effect	ct concentratio	on - PNEC							
Normal value in	n fresh water						0,007	mg/l	
Normal value f	or fresh water	r sediment					0,007	mg/kg	
Normal value f	or water, inter	mittent relea	ase				0,075	mg/l	
lealth - Derived n	o-effect level	- DNEL / DN	<b>MEL</b>						
	Effe	cts on consu	imers			Effects on w	vorkers		
Route of expos	sure Acu	te Acı	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	temic	local	systemic	local	systemic	local	systemic
Oral				VND	0,01		-		
					mg/kg bw/d				
Inhalation				VND	0,035			VND	0,07
					mg/m3				mg/m3
Skin				VND	1			VND	1
					mg/kg bw/d				mg/kg
					2 3				bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

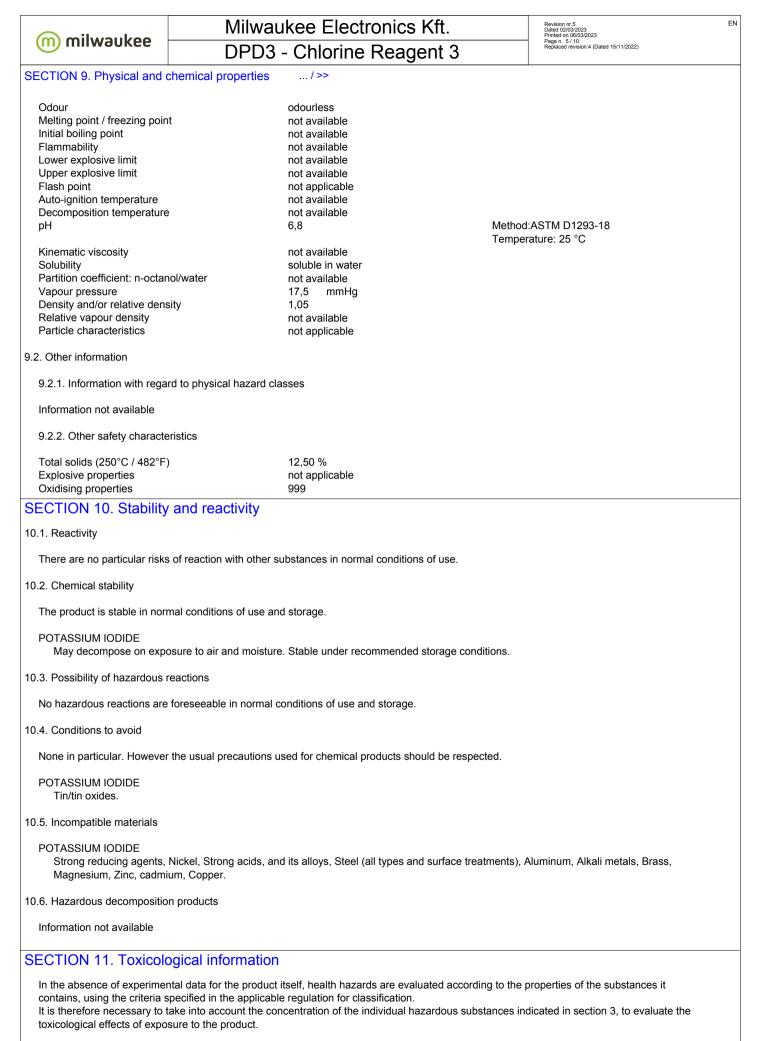
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value
Appearance	liquid
Colour	colourless

Information



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SECTION 11. Toxicologica	al information / >>				
11.1. Information on hazard cla	asses as defined in Regulation (I	EC) No 1272/2008			
Metabolism, toxicokinetics,	mechanism of action and other ir	nformation			
Information not available					
Information on likely routes	of exposure				
Information not available					
Delayed and immediate effe	ects as well as chronic effects fro	m short and long-term exposure			
Information not available					
Interactive effects					
Information not available					
ACUTE TOXICITY					
ATE (Inhalation) of the mixt ATE (Oral) of the mixture: ATE (Dermal) of the mixture		Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)			
POTASSIUM IODIE LD50 (Oral):	ЭЕ	1000 mg/kg Mouse			
SKIN CORROSION / IRRIT	ATION				
Does not meet the classification	ation criteria for this hazard class				
SERIOUS EYE DAMAGE /	IRRITATION				
Does not meet the classification	ation criteria for this hazard class	i			
RESPIRATORY OR SKIN S	SENSITISATION				
Does not meet the classification	ation criteria for this hazard class				
GERM CELL MUTAGENIC	ITY				
Does not meet the classification	ation criteria for this hazard class				
Does not meet the classification	ation criteria for this hazard class				
REPRODUCTIVE TOXICIT	<u>Y</u>				
Does not meet the classification	ation criteria for this hazard class				
STOT - SINGLE EXPOSUR	<u>R</u>				
Does not meet the classifica	ation criteria for this hazard class	1			
STOT - REPEATED EXPOS	SURE				
Causes damage to organs					
ASPIRATION HAZARD					
Does not meet the classification criteria for this hazard class					
11.2. Information on other hazards					
Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.					

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### **SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

POTASSIUM IODIDE Toxicity to daphnia and other aquatic invertebrates, EC50, Daphnia: 2,7 mg/l - 24 h.

POTASSIUM IODIDE LC50 - for Fish

2190 mg/l/96h Oncorhynchus mykiss

12.2. Persistence and degradability

POTASSIUM IODIDE Solubility in water Rapidly degradable

> 10000 mg/l

### 12.3. Bioaccumulative potential

POTASSIUM IODIDE Partition coefficient: n-octanol/water BCF

-0,958 2.268

### 12.4. Mobility in soil

Information not available

### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

#### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

### 12.7. Other adverse effects

Information not available

### SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

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SECTION 14. Transport info	ormation/>>				
14.2. UN proper shipping name	9				
not applicable					
14.3. Transport hazard class(e	s)				
not applicable					
14.4. Packing group					
not applicable					
14.5. Environmental hazards					
not applicable					
14.6. Special precautions for user					
not applicable					
14.7. Maritime transport in bulk	according to IMO instruments				
Information not relevant					
SECTION 15. Regulat	ory information				
15.1. Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture				
Seveso Category - Directive	2012/18/EU: None				
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006  Product Point 3					
	- on the marketing and use of explosives precursors				
not applicable					
Substances in Candidate List On the basis of available da	st (Art. 59 REACH)				
Substances subject to authonomous None	Substances subject to authorisation (Annex XIV REACH) None				
Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None					
Substances subject to the Rotterdam Convention:					
Substances subject to the S None	tockholm Convention:				
Healthcare controls Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.					
German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017) WGK 1: Low hazard to waters					
15.2. Chemical safety assessm	nent				
A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.					
SECTION 16. Other in	formation				
Text of hazard (H) indications mentioned in section 2-3 of the sheet:					
STOT RE 1 H372	Specific target organ toxicity - repeated exposure, category 1 Causes damage to organs through prolonged or repeated exposure.				

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#### SECTION 16. Other information .../>>

I EGEND.

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

### **GENERAL BIBLIOGRAPHY**

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.



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SECTION 16. Other information ... / >>

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 08 / 09 / 12.