SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Revision date 17/07/2023 **Revision Number** 19

1.1. Product identifier

Product Code(s) SPH7010E, SPH7010AUST, SPH7010HO, PTH043, AD-0412, AP041, PM056, WAG-WE10316, SPH7010US, PTH0503M, CKH1056, PTH071CN, AL300USA, AL200AUST, SPH7009E, SP709AUST, SP725AUST, SPR7009US, AK041, AK056, AL200, AL300, AP056, AR790HIL, CM056, PM041, WAG-WE10119, WAG-WE10156, AL300ROW, WAG-WE10344, SP709E, SP725E, AL300AUST, AL200ROW, AL200USA, SPH7025E, SPR7009E, SPR7025E, SPH7009AUST, SPH7009US, SP709US, SPH7025AUST, SPH7025US, SPR7025US, SPR7009AUST, SPR7025AUST, PTW10489CN, LMP206

Product Name DPD No. 4 CLEAR TABLETS

Synonyms X-041

Pure substance/mixture Mixture

Contains Potassium iodide (KI)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Testing water

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier
Palintest Ltd. Team Valley, Gateshead, NE11 0NS, UK +44 (0)191 491 0808

For further information, please contact

Contact Point Website: www.palintest.com

E-mail address palintest@palintest.com

Non-Emergency Telephone Number +44 (0)191 491 0808

1.4. Emergency telephone number

Emergency Telephone +44 (0)207 858 1228 (24hr)

2.1. Classification of the substance or mixture

Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity — repeated exposure	Category 1 - (H372)

2.2. Label elements

Contains Potassium iodide (KI)

Signal word
Danger

Hazard statements
H319 - Causes serious eye irritation
H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary statements
P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear eye protection/ face protection
P314 - Get medical advice/attention if you feel unwell
P337 + P313 - If eye irritation persists: Get medical advice/attention
P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information
This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

No information available.

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Phosphoric acid, disodium salt, dihydrate 10028-24-7	26.51	231-448-7	-	Eye Irrit. 2 (H319)	-	-	-
Potassium iodide (KI) 7681-11-0	18.56	231-659-4	-	STOT Rep. Exp. 1 (H372)	-	-	-
Hexanedioic acid 124-04-9	9.47	204-673-3	-	Eye Irrit. 2 (H319)	-	-	-
Glycine, N,N-1,2-ethanediylbis[N-(carboxymethyl)-, disodium salt, dihydrate 6381-92-6	8.48	613-386-6	-	Acute Tox. 4 (H332) STOT Rep. Exp. 2 (H373)	-	-	-
Boric acid (H3BO3)	5.15	233-139-2	-	Repr. 1B (H360FD)	Repr. 1B ::	-	-

10043-35-3					C>=5.5%		

Full text of H- and EUH-phrases: see section 16

Chemical name	CAS No	SVHC candidates
Boric acid (H3BO3)	10043-35-3	X

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Do not breathe dust/fume/gas/mist/vapours/spray.

Inhalation If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. If symptoms persist, call a doctor. IF exposed or concerned: Get medical advice/attention.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin contact Wash skin with soap and water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing dust/fume/gas/mist/vapours/spray. Use personal protective equipment as required. See section 8 for more information.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation. May cause redness and tearing of the eyes. Coughing and/ or wheezing.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust. Use personal protective equipment as required.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.

7.1. Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Do not breathe dust. Do not eat, drink or smoke when using this product.
General hygiene considerations	Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

7.3. Specific end use(s)

Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.

8.1. Control parameters

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Biological occupational exposure limits	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Hexanedioic acid 124-04-9		38 mg/kg bw/day [4] [6] 38 mg/kg bw/day [4] [7]	264 mg/m³ [4] [6] 264 mg/m³ [4] [7] 5 mg/m³ [5] [6] 5 mg/m³ [5] [7]
Boric acid (H3BO3) 10043-35-3		392 mg/kg bw/day [4] [6]	8.3 mg/m³ [4] [6]

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Hexanedioic acid 124-04-9	19 mg/kg bw/day [4] [6] 19 mg/kg bw/day [4] [7]	19 mg/kg bw/day [4] [6] 19 mg/kg bw/day [4] [7]	65 mg/m³ [4] [6] 65 mg/m³ [4] [7]
Boric acid (H3BO3) 10043-35-3	0.98 mg/kg bw/day [4] [6] 0.98 mg/kg bw/day [4] [7]		4.15 mg/m³ [4] [6]

[4] Systemic health effects.
[6] Long term.
[7] Short term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Hexanedioic acid 124-04-9	0.126 mg/L	0.46 mg/L	0.0126 mg/L		
Boric acid (H3BO3) 10043-35-3	2.9 mg/L	13.7 mg/L	2.9 mg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Hexanedioic acid 124-04-9	0.484 mg/kg sediment dw	0.0484 mg/kg sediment dw	59.1 mg/L	0.0228 mg/kg soil dw	
Boric acid (H3BO3) 10043-35-3			10 mg/L	5.7 mg/kg soil dw	

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves.

Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	solid
Colour	white
Odour	No information available.
Odour threshold	No information available

Property	**Values**	**Remarks • Method**
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	No data available	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	No information available	
Oxidising properties	No information available	

9.2. Other information

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Coughing and/ or wheezing. May cause redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 5,281.90 mg/kg
ATEmix (dermal) 16,902.90 mg/kg
ATEmix (inhalation-gas) 99,999.00 ppm
ATEmix (inhalation-dust/mist) 14.10 mg/l
ATEmix (inhalation-vapour) 99,999.00 mg/l

Unknown acute toxicity
Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphoric acid, disodium salt, dihydrate	= 17 g/kg (Rat)	-	-
Potassium iodide (KI)	-	> 2000 mg/kg (Rat)	-
Hexanedioic acid	> 11000 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	> 7700 mg/m³ (Rat) 4 h
Boric acid (H3BO3)	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.12 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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. Contains a known or suspected reproductive toxin.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	United Kingdom
Boric acid (H3BO3)	Repr. 1B

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard No information available.

Other adverse effects No information available.

12.1. Toxicity

Ecotoxicity

Unknown aquatic toxicity Contains 0.01 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Potassium iodide (KI)	-	LC50: >100mg/L (96h, Danio rerio)	-	-
Hexanedioic acid	EC50: =31.3mg/L (72h, Desmodesmus subspicatus) EC50: =26.6mg/L (96h, Desmodesmus subspicatus)	LC50: =97mg/L (96h, Pimephales promelas)	-	EC50: =85.7mg/L (48h, Daphnia magna)
Boric acid (H3BO3)	-	-	-	EC50: 115 - 153mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Hexanedioic acid	0.093
Boric acid (H3BO3)	-1.09

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment
Potassium iodide (KI)	The substance is not PBT / vPvB PBT assessment does not apply
Hexanedioic acid	The substance is not PBT / vPvB
Glycine, N,N-1,2-ethanediylbis[N-(carboxymethyl)-, disodium salt, dihydrate	The substance is not PBT / vPvB
Boric acid (H3BO3)	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

No information available.

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

IATA

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

IMDG

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

14.7 Maritime transport in bulk according to IMO instruments No information available

RID

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

ADR

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

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

National regulations

Authorisations and/or restrictions on use:
This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Boric acid (H3BO3) - 10043-35-3	Use restricted. See item 30. Restricted Reproductive Toxin 1B	-

Persistent Organic Pollutants
Not applicable

Export Notification requirements
Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended)
Not applicable

The Ozone-Depleting Substances Regulations 2015
Not applicable

The Biocidal Products Regulations 2001 (as amended)
Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)
Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)
Not applicable

International Inventories

TSCA Contact supplier for inventory compliance status
DSL/NDSL Contact supplier for inventory compliance status
EINECS/ELINCS Contact supplier for inventory compliance status

ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No information available

UK SDS version information - XGHS

UL release:
GHS Revision 7
2022 Q1

United Kingdom Full process, including GHS and Transportation Wizards

Specific target organ toxicity — repeated exposure	Category 1

Full text of H-Statements referred to under section 3: H319 - Causes serious eye irritation H332 - Harmful if inhaled H360FD - May damage fertility. May damage the unborn child H372 - Causes damage to organs through prolonged or repeated exposure H373 - May cause damage to organs through prolonged or repeated exposure

Chemical name	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)
Phosphoric acid, disodium salt, dihydrate	Eye Irrit. 2 (H319)	
Potassium iodide (KI)	STOT Rep. Exp. 1 (H372)	
Hexanedioic acid	Eye Irrit. 2 (H319)	
Glycine, N,N-1,2-ethanediylbis[N-(carboxymethyl)-, disodium salt, dihydrate	Acute Tox. 4 (H332) STOT Rep. Exp. 2 (H373)	
Boric acid (H3BO3)	Repr. 1B (H360FD)	Repr. 1B :: C>=5.5%