

#### Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 27 Mar 2024

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product name:

Hexythiazox Metabolite 1 PT-1-3

#### 1.1. Catalog No.:

689615

# 1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical uses: R&D

#### 1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

04451 Cunnersdorf Deutschland

Tel. +49 34291 3372-36 Fax. +49 34291 3372-39 contact@hpc-standards.com

#### 1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36 This number is only available during office hours.

### 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008 Acute toxicity - Oral Category 4 - (H302) Serious eye damage/eye irritation Category 2 - (H319) Chronic aquatic toxicity Category 3 - (H412)

#### 2.2. Label elements

#### 2.2.1. Pictogram

#### 2.2.2.

2.2. Label elements
Contains (4R,5R)-5-(4-chlorophenyl)-4-methyl-1,3-thiazolidin-2-one Signal word Warning
Hazard statements
H302 - Harmful if swallowed
H319 - Causes serious eye irritation
H412 - Harmful to aquatic life with long lasting effects
Precautionary Statements - EU (§28, 1272/2008)
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P273 - Avoid release to the environment
P280 - Wear eye protection/ face protection
P337 + P313 - If eye irritation persists: Get medical advice/attention



P501 - Dispose of contents/ container to an approved waste disposal plant 2.3. Other hazards Harmful to aquatic life. This substance does not meet the PBT/vPvB criteria of REACH, annex XIII Chemical name 4R,5R)-5-(4-chlorophenyl)-4-methyl-1,3-thiazolid in-2-one EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name (4R,5R)-5-(4-chloro phenyl)-4-methyl-1, 3-thiazolidin-2-one78587-59-4 Weight-% 100 REACH registrationnumber Classification according to Regulation (EC) No.1272/2008 [CLP] : Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412) Specific concentration limit (SCL) M-Factor M-Factor (long-term) Full text of H- and EUH-phrases: see section 16 Acute Toxicity Estimate No information available This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

#### 3.1.1. Formula

C10H10CINOS

#### 3.1.2. Molecular Weight (g/mol)

227.71

#### 3.1.3. CAS-No.

78587-59-4

#### 4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Inhalation Remove to fresh air. Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists. Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

Symptoms May cause redness and tearing of the eyes. Burning sensation.

4.3. Indication of any immediate medical attention and special treatment needed Note to doctors Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

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 Firefighters should wear self-contained breathing apparatus and full firefighting turnout



gear. Use personal protection equipment.

### 6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures Personal precautions Avoid contact with skin, eyes or clothing. 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. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. General hygiene considerations Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face

protection.

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. Please refer to the manufacturers certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on

the CoA. 7.3. Specific end use(s)

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

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration

(PNEC)

No information available.

No information available. 8.2. Exposure controls Personal protective equipment Eye/face protection If splashes are likely to occur, wear safety glasses with side-shields. Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Hand protection Wear suitable gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective nitrile rubber gloves. Wear protection Wear suitable protective clothing. 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. General hygiene considerations Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face

protection. Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties Physical state Solid Appearance Solid Colour off-white Odour No information available. Odour threshold No information available Property Values Remarks o Method Melting point / freezing point 143 - 145 °C 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 No data available None known pH (as aqueous solution) No data available No information available Kinematic viscosity No data available None known Dynamic viscosity No data available None known Water solubility 7.9 mg/l @ 20 °C Solubility(ies) slightly soluble, Chloroform, Methanol Partition coefficient 4.5 None known Vapour pressure 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 9.2. Other information Molecular weight 227.71 Molecular formula C10 H10 Cl N O S 9.2.1. Information with regards to physical hazard class 9.2.1. Information with regards to physical hazard classes Not applicable 9.2.2. Other safety characteristics No information available

#### **10. STABILITY AND REACTIVITY**

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 None known based on information supplied. 10.5. Incompatible materials Incompatible materials None known based on information supplied. Hazardous decomposition products None known based on information supplied.

#### **11. TOXICOLOGICAL INFORMATION**

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 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. (based on components). May cause redness, itching, and pain. 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. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if swallowed. (based on components). Symptoms related to the physical, chemical and toxicological characteristics Symptoms May cause redness and tearing of the eyes. Numerical measures of toxicity Acute toxicity Component Information Chemical name (4R,5R)-5-(4-chlorophenyl)-4-m ethyl-1,3-thiazolidin-2-one Oral LD50 = 341 mg/kg ( Rat ) Dermal LD50 Inhalation LC50 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 No information available. Germ cell mutagenicity No information available Carcinogenicity No information available. Reproductive toxicity No information available. STOT - single exposure No information available. STOT - repeated exposure No information available.



Aspiration hazard No information available. 11.2. Information on other hazards 11.2.1. Endocrine disrupting properties Endocrine disrupting properties No information available. 11.2.2. Other information Other adverse effects No information available.

#### 12. ECOLOGICAL INFORMATION

12.1. Toxicity Ecotoxicity Harmful to aquatic life with long lasting effects Chemical name (4R,5R)-5-(4-chloropheny I)-4-methyl-1,3-thiazolidin -2-one Algae/aquatic plants Fish Toxicity to Algae/aquatic plants FISH FORMY to microorganisms -Crustacea EC50: 13.6 mg/l (Daphnia magna, 48h) 12.2. Persistence and degradability Persistence and degradability No information available. 12.3. Bioaccumulative potential Bioaccumulation There is no data for this product. Component Information Component Information Chemical name Partition coefficient (4R,5R)-5-(4-chlorophenyl)-4-methyl-1,3-thiazolidin-2-one 4.5 12.4. Mobility in soil Mobility in soil No information available. 12.5. Results of PBT and vPvB assessment PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB. 12.6. Endocrine disrupting properties Endocrine disrupting properties No information available. 12.7. Other adverse effects No information available.

#### 13. DISPOSAL CONSIDERATIONS

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

# **14. TRANSPORT INFORMATION**

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 Marine pollutent Not applicable

14.5 Marine pollutant Not applicable

14.6 Special precautions for user

Special Provisions None No information available

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. REGULATORY INFORMATION**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1. Safety, health and environmental regulations/legislation specific for the substance or Water hazard class (WGK) obviously hazardous to water (WGK 2) Poland SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging was to 2013, item 2013 of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014). **European Union** Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Authorisations and/or restrictions on use: This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII) DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors Not applicable Persistent Organic Pollutants Not applicable Ozone-depleting substances (ODS) regulation (EC) 1005/2009 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 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 AICS - Australian Inventory of Chemical Substances 15.2. Chemical safety assessment Chemical Safety Report A Chemical Safety Assessment has been carried out for this substance

### **16. OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!