

# SAFETY DATA SHEET

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

Revision date 20/07/2023 Revision Number 17

1.1. Product identifier

Product Code(s) PT225OX, PT224OX, CM166, ST-2345, CKH1166, WAG-WE10106, SKW500,

PM166, WAG-WE10302, AK166, PK166, AP166, ST-2350, SKR006, AP166WAG,

SK500, WAG-WE15166, WAG-WE10480RPU, PTW10800, CKH0225OX

Safety data sheet number 10196

Product Name ALUMINIUM No. 2 TABLETS

Synonyms X-167

Pure substance/mixture Mixture

Contains 1,3,5,7-Tetraazatricyclo[3.3.1.1(3,7)]decane

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

<u>Supplier</u>

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

Skin sensitisation Category 1 - (H317)

2.2. Label elements

Contains 1,3,5,7-Tetraazatricyclo[3.3.1.1(3,7)]decane



#### Signal word Warning

#### **Hazard statements**

H317 - May cause an allergic skin reaction

#### **Precautionary statements**

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P280 - Wear protective gloves

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P362 + P364 - Take off contaminated clothing and wash it before reuse

P501 - Dispose of contents/ container to an approved waste disposal plant

#### 2.3. Other hazards

No information available.

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical name	Weight-%	EC No (EU	UK REACH registration	Classification according	Specific	M-Factor	M-Factor
		Index No)	number	to GB CLP (SI	concentration		(long-term)
				2020/1567 as	limit (SCL)		
				amended)			
1,3,5,7-Tetraazatric	31.15	202-905-8	-	Flam. Sol. 2 (H228)	-	-	-
yclo[3.3.1.1(3,7)]dec				Skin Sens. 1 (H317)			
ane							
100-97-0							

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

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

#### 4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

**Skin contact**Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation

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or allergic reactions see a doctor.

Ingestion Rinse mouth. Get medical attention immediately if symptoms occur.

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

Symptoms Asthma-like and/ or skin allergy-like symptoms. Itching. Rashes. Hives.

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

**Note to doctors**May cause sensitisation in susceptible persons. Treat symptomatically.

5.1. Extinguishing media

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

Product is or contains a sensitiser. May cause sensitisation by skin contact.

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 Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

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.

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### 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. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash it before reuse. Avoid breathing

dust/fume/gas/mist/vapours/spray.

General hygiene considerations Wash har

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.

### 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
1,3,5,7-Tetraazatricyclo[3.3.1.1(3,7)]de		6.4 mg/kg bw/day [4] [6]	5.6 mg/m³ [4] [6]
cane			
100-97-0			

[4] Systemic health effects.

[6] Long term. [7] Short term.

## Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
1,3,5,7-Tetraazatricyclo[3.3.1.1(3,7)]de	0.8 mg/kg bw/day [4] [6]		1.2 mg/m³ [4] [6]
cane			
100-97-0			

[4] Systemic health effects.

[6] Long term. [7] Short term.

### **Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater	Marine water	Marine water	Air
		(intermittent release)		(intermittent release)	
1,3,5,7-Tetraazatricyclo[3. 3.1.1(3,7)]decane 100-97-0	3 mg/L	30 mg/L	0.3 mg/L	30 mg/L	

	Chemical name	Freshwater	Marine sediment	Sewage treatment	Soil	Food chain
		sediment				
Γ	1,3,5,7-Tetraazatricyclo[3.	10.2 mg/kg	1.02 mg/kg	100 mg/L	0.28 mg/kg soil dw	
	3.1.1(3,7)]decane	sediment dw	sediment dw			
	100-97-0					

#### 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.

Wear suitable protective clothing. Skin and body protection

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 beige Brownish

No information available. Odour No information available **Odour threshold** 

Remarks • Method **Property** Values

Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known **Flammability** No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

No data available Lower flammability or explosive

limits

Flash point No data available None known No data available **Autoignition temperature** None known **Decomposition temperature** None known

pН

No data available None known pH (as aqueous solution) No data available None known

No data available None known Kinematic viscosity Dynamic viscosity No data available None known Water solubility No data available None known Solubility(ies) No data available None known No data available **Partition coefficient** None known Vapour pressure No data available None known No data available Relative density None known

**Bulk density** No data available No data available **Liquid Density** No data available

Relative vapour density

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

No information available. Reactivity

10.2. Chemical stability

Stable under normal conditions. Stability

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge

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.

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.

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

Skin contact May cause sensitisation by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with

None known

susceptible persons. (based on components).

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

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Asthma-like and/ or skin allergy-like symptoms. Itching. Rashes. Hives.

Acute toxicity

Numerical measures of toxicity

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

 ATEmix (oral)
 5,334.70 mg/kg

 ATEmix (dermal)
 2,414.20 mg/kg

 ATEmix (inhalation-gas)
 99,999.00 ppm

 ATEmix (inhalation-dust/mist)
 99,999.00 mg/l

 ATEmix (inhalation-vapour)
 99,999.00 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,3,5,7-Tetraazatricyclo[3.3.1.1(	> 20000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
3,7)]decane			

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 Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

**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.

Other adverse effects No information available.

12.1. Toxicity

### **Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
1,3,5,7-Tetraazatricyclo[3	-	LC50: 44600 - 55600mg/L	-	EC50: 29868 -
.3.1.1(3,7)]decane		(96h, Pimephales		43390mg/L (48h, Daphnia
		promelas)		magna)

### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential

#### **Bioaccumulation**

**Component Information** 

Chemical name		Partition coefficient	
	1,3,5,7-Tetraazatricyclo[3.3.1.1(3,7)]decane	-2.18	

#### 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	
1,3,5,7-Tetraazatricyclo[3.3.1.1(3,7)]decane	The substance is not PBT / vPvB PBT assessment does	
	not apply	

### 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 Not applicable 14.5 Environmental hazards

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 regulated14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions None

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

RID

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

ADR

14.1UN number or ID numberNot regulated14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated14.5Environmental hazardsNot 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 does not contain substances subject to authorisation (UK REACH - Annex XIV). This product does not contain substances subject to restriction (UK REACH - Annex XVII).

### **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)

Chemical name	Poisons and Explosive Precursors	
1,3,5,7-Tetraazatricyclo[3.3.1.1(3,7)]decane	Explosive precursor, Reportable	

#### **International Inventories**

**TSCA** Contact supplier for inventory compliance status **DSL/NDSL** Contact supplier for inventory compliance status 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 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

Full text of H-Statements referred to under H228 - Flammable solid H317 - May cause an allergic skin reaction section 3

Chemical name	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)
1,3,5,7-Tetraazatricyclo[3.3.1.1(3,7)]decane	Flam. Sol. 2 (H228)	
	Skin Sens. 1 (H317)	