acc. to Regulation (EC) No. 1907/2006 (REACH)

Imidazole PUFFERAN® ≥99 %, p.a., Ultra Quality

article number: **X998**Version: **4.0 en**date of compilation: 2015-08-25
Revision: 2023-07-19

Replaces version of: 2022-07-22

Version: (3)



1.1 Product identifier

Article number X998

 Index No (GB CLP)
 613-319-00-0

 EC number
 206-019-2

 CAS number
 288-32-4

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for products which come into direct

contact with the skin. Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). Food, drink

and animal feedingstuffs.

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment

sheet:

e-mail (competent person): sicherheit@carlroth.de

1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

United Kingdom (en) Page 1 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)

Imidazole PUFFERAN® ≥99 %, p.a., Ultra Quality

article number: X998



SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.10	Acute toxicity (oral)	4	Acute Tox. 4	H302
3.2	Skin corrosion/irritation	1C	Skin Corr. 1C	H314
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.7	Reproductive toxicity	1B	Repr. 1B	H360D

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

2.2 Label elements

Labelling

Signal word Danger

Pictograms

GHS05, GHS07, GHS08







Hazard statements

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H360D May damage the unborn child

Precautionary statements

Precautionary statements - prevention

P202 Do not handle until all safety precautions have been read and understood

P270 Do not eat, drink or smoke when using this product

P280 Wear protective gloves/eye protection

Precautionary statements - response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P310 Immediately call a POISON CENTER/doctor

For professional users only

United Kingdom (en) Page 2 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)

Imidazole PUFFERAN® ≥99 %, p.a., Ultra Quality

article number: X998



Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of \geq 0,1%.

SECTION 3: Composition/information on ingredients

3.1 **Substances**

Name of substance **Imidazole** Molecular formula $C_3H_4N_2$ Molar mass 68,08 ^g/_{mol} CAS No 288-32-4 EC No 206-019-2 Index No (GB CLP) 613-319-00-0

Substance, Specific Conc. Limits, M-factors, ATE

Specific Conc. Limits	M-Factors	ATE	Exposure route
-	-	970 ^{mg} / _{kg}	oral

SECTION 4: First aid measures

4.1 **Description of first aid measures**



General notes

Take off immediately all contaminated clothing. Self-protection of the first aider.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

Following ingestion

Rinse mouth immediately and drink plenty of water. Rinse mouth with water (only if the person is conscious). If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects). In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

4.2 Most important symptoms and effects, both acute and delayed

Corrosion, Vomiting, Risk of blindness, Gastric perforation, Risk of serious damage to eyes

United Kingdom (en) Page 3 / 17



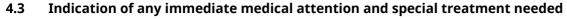
Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

acc. to Regulation (EC) No. 1907/2006 (REACH)

Imidazole PUFFERAN® ≥99 %, p.a., Ultra Quality

article number: X998



none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible.

Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically. Control of dust.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

United Kingdom (en) Page 4 / 17



acc. to Regulation (EC) No. 1907/2006 (REACH)

Imidazole PUFFERAN® ≥99 %, p.a., Ultra Quality

article number: X998



SECTION 7: Handling and storage

Precautions for safe handling

Provision of sufficient ventilation. Handle and open container with care. Avoid exposure. Avoid dust formation. Clear contaminated areas thoroughly.

Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

Conditions for safe storage, including any incompatibilities 7.2

Store in a dry place.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Ventilation requirements

Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Coun try	Name of agent	CAS No	Identifi- er	TWA [mg/ m³]	STEL [mg/ m³]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
GB	dust		WEL	10			i	EH40/2005
GB	dust		WEL	4			r	EH40/2005

Notation

Ceiling value is a limit value above which exposure should not occur Inhalable fraction Ceiling-C

Respirable fraction

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-

minute period (unless otherwise specified)

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified) **TWA**

Human health values

United Kingdom (en) Page 5 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)

Imidazole PUFFERAN® ≥99 %, p.a., Ultra Quality

article number: X998



Relevant DNELs and other threshold levels							
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time			
DNEL	10,6 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects			
DNEL	1,5 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects			

Environmental values

Relevant	Relevant PNECs and other threshold levels							
End- point	Threshold level	Organism	Environmental com- partment	Exposure time				
PNEC	0,13 ^{mg} / _l	aquatic organisms	freshwater	short-term (single instance)				
PNEC	0,013 ^{mg} / _l	aquatic organisms	marine water	short-term (single instance)				
PNEC	10 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)				
PNEC	0,336 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single instance)				
PNEC	0,034 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single instance)				
PNEC	0,043 ^{mg} / _{kg}	terrestrial organisms	soil	short-term (single instance)				

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection





Use safety goggle with side protection. Wear face protection.

Skin protection





hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

type of material

NBR (Nitrile rubber)

United Kingdom (en) Page 6 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)

Imidazole PUFFERAN® ≥99 %, p.a., Ultra Quality

article number: X998



>0,11 mm

breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection





Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P2 (filters at least 94 % of airborne particles, colour code: White).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state solid

Form crystalline

Colour white - light yellow

Odour like: - amine Melting point/freezing point 88 – 90 °C

Boiling point or initial boiling point and boiling

range

256 - 268 °C at 1.013 hPa

Flammability this material is combustible, but will not ignite

readily

Decomposition temperature not relevant

pH (value) 10-11 (in aqueous solution: $100 \frac{9}{1}$, $20 ^{\circ}$ C)

Kinematic viscosity not relevant

Dynamic viscosity 2,6 – 2,7 mPa s at 100 °C

Solubility(ies)

Water solubility $>630 \, ^{\rm g}/_{\rm l}$ at 20 °C

Partition coefficient

Partition coefficient n-octanol/water (log value): 0,0586 (ECHA)

United Kingdom (en) Page 7 / 17



acc. to Regulation (EC) No. 1907/2006 (REACH)

Imidazole PUFFERAN® ≥99 %, p.a., Ultra Quality

article number: X998

Soil organic carbon/water (log KOC) >1,362 – <2,316 (ECHA)

Vapour pressure 0,003 hPa at 20 °C

Density and/or relative density

Density 1,233 ^g/_{cm³} at 20 °C

Relative vapour density information on this property is not available

Bulk density $500 - 600 \text{ kg/m}^3$

Particle characteristics No data available.

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard

classes:

hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics: There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser, Acetic anhydride, Acids

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

United Kingdom (en) Page 8 / 17



acc. to Regulation (EC) No. 1907/2006 (REACH)

Imidazole PUFFERAN® ≥99 %, p.a., Ultra Quality

article number: X998



SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification acc. to GHS

Acute toxicity

Harmful if swallowed.

Acute	toxicity
-------	----------

Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	970 ^{mg} / _{kg}	rat		ECHA

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

May damage the unborn child.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects)

• If in eyes

causes burns, Causes serious eye damage, risk of blindness

• If inhaled

irritant effects, cough, breathing difficulties

• If on skin

causes severe burns, causes poorly healing wounds

Other information

none

United Kingdom (en) Page 9 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)

Imidazole PUFFERAN® ≥99 %, p.a., Ultra Quality

article number: X998



11.3 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)					
Endpoint	Value	Species	Source	Exposure time	
LC50	283,6 ^{mg} / _l	fish	ECHA	48 h	
EC50	341,5 ^{mg} / _l	aquatic invertebrates	ECHA	48 h	
ErC50	133 ^{mg} / _l	algae	ECHA	72 h	

Aquatic toxicity (chronic) Endpoint Value Species Source Exposure time EC50 >1.000 ^{mg}/_I **ECHA** 30 min microorganisms

12.2 Persistence and degradability

Theoretical Oxygen Demand (without nitrification): 1,175 $^{\rm mg}/_{\rm mg}$ Theoretical Oxygen Demand (with nitrification): 2,174 $^{\rm mg}/_{\rm mg}$ Theoretical Carbon Dioxide: 1,939 $^{\rm mg}/_{\rm mg}$

Biodegradation

The substance is readily biodegradable.

Process of degradability		
Process	Degradation rate	Time
biotic/abiotic	86 %	19 d
DOC removal	90 – 100 %	18 d

12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW)	0,0586 (ECHA)
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12.4 Mobility in soil

United Kingdom (en) Page 10 / 17



Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.

acc. to Regulation (EC) No. 1907/2006 (REACH)

Imidazole PUFFERAN® ≥99 %, p.a., Ultra Quality

article number: X998



Henry's law constant	0 ^{Pa m³} / _{mol} at 25 °C (ECHA)
The Organic Carbon normalised adsorption coefficient	>1,362 - <2,316 (ECHA)

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of \geq 0,1%.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Properties of waste which render it hazardous

HP 4 irritant - skin irritation and eye damage

HP 6 acute toxicity

HP8 corrosive

HP 10 toxic for reproduction

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number or ID number

ADRRID UN 3263
IMDG-Code UN 3263
ICAO-TI UN 3263

14.2 UN proper shipping name

ADRRID CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

United Kingdom (en) Page 11 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)

Imidazole PUFFERAN® ≥99 %, p.a., Ultra Quality

article number: X998

IMDG-Code CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

ICAO-TI Corrosive solid, basic, organic, n.o.s.

Technical name Imidazole

14.3 Transport hazard class(es)

ADRRID 8
IMDG-Code 8
ICAO-TI 8

14.4 Packing group

ADRRID III
IMDG-Code III
ICAO-TI III

14.5 Environmental hazards non-environmentally hazardous acc. to the dan-

gerous goods regulations

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information

Proper shipping name CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

Particulars in the transport document UN3263, CORROSIVE SOLID, BASIC, ORGANIC,

N.O.S., (İmidazole), 8, III, (E)

Classification code C8
Danger label(s) 8



Special provisions (SP) 274

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 kg

Transport category (TC) 3
Tunnel restriction code (TRC) E

Hazard identification No 80

Emergency Action Code 2X

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional information

Classification code C8

Danger label(s) 8

United Kingdom (en) Page 12 / 17



acc. to Regulation (EC) No. 1907/2006 (REACH)

Imidazole PUFFERAN® ≥99 %, p.a., Ultra Quality

article number: X998



Special provisions (SP)274Excepted quantities (EQ)E1Limited quantities (LQ)5 kgTransport category (TC)3Hazard identification No80

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

Particulars in the shipper's declaration UN3263, CORROSIVE SOLID, BASIC, ORGANIC,

N.O.S., (Ímidazole), 8, III

Marine pollutant -

Danger label(s) 8



Special provisions (SP) 223, 274

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 kg

EmS F-A, S-B

Stowage category A

Segregation group 18 - Alkalis

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Corrosive solid, basic, organic, n.o.s.

Particulars in the shipper's declaration UN3263, Corrosive solid, basic, organic, n.o.s.,

(Imidazole), 8, III

Danger label(s) 8



Special provisions (SP)

Excepted quantities (EQ)

Limited quantities (LQ)

5 kg

United Kingdom (en) Page 13 / 17



acc. to Regulation (EC) No. 1907/2006 (REACH)

Imidazole PUFFERAN® ≥99 %, p.a., Ultra Quality

article number: X998



SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

Deco-Paint Directive

VOC content	0 %
VOC content	0 ^g / _l

Industrial Emissions Directive (IED)

VOC content	0 %
VOC content	0 ^g / _l

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Imidazole	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)	

Legend

A) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

United Kingdom (en) Page 14 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)

Imidazole PUFFERAN® ≥99 %, p.a., Ultra Quality

article number: X998



Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

National regulations(GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

not listed

Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name of substance	Name acc. to inventory	CAS No	No
Imidazole	toxic for reproduction		30

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

Legend

Australian Inventory of Industrial Chemicals Chemical Inventory and Control Regulation List of Existing and New Chemical Substances (CSCL-ENCS) AIIC

CSCL-ENCS

DSL ECSI

Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China National Inventory of Chemical Substances
Korea Existing Chemicals Inventory

National Chemical Inventory

United Kingdom (en) Page 15 / 17

acc. to Regulation (EC) No. 1907/2006 (REACH)

Imidazole PUFFERAN® ≥99 %, p.a., Ultra Quality

article number: X998

NZIOC New Zealand Inventory of Chemicals
PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg. REACH registered substances
TCSI Taiwan Chemical Substance Inventory
TSCA Toxic Substance Control

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.	yes
15.1	VOC content: 0 % 0 ^g / _l	VOC content: 0 %	yes
15.1		VOC content: 0 ⁹ / _l	yes
15.1		National inventories: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
ADR Accord relatif au transport international des marchandises dangereuses par route (Agreement co		
ATE	Acute Toxicity Estimate	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
Ceiling-C	Ceiling value	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
DNEL	Derived No-Effect Level	
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval	
EC No The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, ar fier of substances commercially available within the EU (European Union)		
EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-govern cence/)		
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
EmS Emergency Schedule		
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control	
GB CLP The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendetc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)		

United Kingdom (en) Page 16 / 17



acc. to Regulation (EC) No. 1907/2006 (REACH)

Imidazole PUFFERAN® ≥99 %, p.a., Ultra Quality

article number: X998



Abbr.	Descriptions of used abbreviations	
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)	
GHS "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the Unit tions		
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air	
IMDG	International Maritime Dangerous Goods Code	
IMDG-Code	International Maritime Dangerous Goods Code	
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008	
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval	
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval	
NLP	No-Longer Polymer	
PBT	Persistent, Bioaccumulative and Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID Règlement concernant le transport International ferroviaire des marchandises Dangereuses (F tions concerning the International carriage of Dangerous goods by Rail)		
STEL	Short-term exposure limit	
TWA	Time-weighted average	
VOC	Volatile Organic Compounds	
vPvB	Very Persistent and very Bioaccumulative	
WEL	Workplace exposure limit	

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H360D	May damage the unborn child.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

United Kingdom (en) Page 17 / 17