

	Revision Date 25.10.2012	Version 1.2
SECTION 1. Identification of the su 1.1 Product identifier	ubstance/mixture and of the compa	iny/undertaking
Catalogue No.	845091	
Product name	Benzamidine hydrochloride hydra	ate Msynth®plus
REACH Registration Number	- , ,	
1.2 Relevant identified uses of th	e substance or mixture and uses a	advised against
Identified uses	Pharmaceutical production, Chen For additional information on use portal (www.merck-chemicals.cor	s please refer to the Merck Chemicals
1.3 Details of the supplier of the	safety data sheet	
Company Responsible Department	Merck KGaA * 64271 Darmstadt LS-QHC * e-mail: prodsafe@mer	* Germany * Phone:+49 6151 72-0 ckgroup.com
1.4 Emergency telephone number	Please contact the regional com	pany representation in your country.
SECTION 2. Hazards identification		
2.1 Classification of the substanc This substance is not classifie	ce or mixture d as dangerous according to Europ	pean Union legislation.
2.2 Label elements Labelling (REGULATION (EC		

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Labelling (67/548/EEC or 1999/45/EC)

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients

Formula	C7H₅N2*HCI*xH2O	C7H₀ClN₂*xH₂O (Hill)
CAS-No.	206752-36-5	

For the full text of the H-Statements mentioned in this Section, see Section 16.

Remarks

No disclosure requirement according to Regulation (EC) No. 1907/2006

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SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water, Carbon dioxide (CO2), Foam, Dry powder

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Combustible. Development of hazardous combustion gases or vapours possible in the event of fire. Fire may cause evolution of: Hydrogen chloride gas, nitrogen oxides

5.3 Advice for firefighters

Special protective equipment for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental precautions

Do not empty into drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

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Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Observe label precautions.

7.2 Conditions for safe storage, including any incompatibilities Tightly closed. Dry.

Store at +15°C to +25°C.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

Eye/face protection Safety glasses

Hand protection

full contact:

	Glove material:	Nitrile rubber
	Glove thickness:	0,11 mm
	Break through time:	> 480 min
splash contact:		
	Glove material:	Nitrile rubber
	Glove thickness:	0,11 mm
	Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

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Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not empty into drains.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

ColourwhiteOdourNo strong odour known.Odour ThresholdNo information available.pH5 at 50 g/l 20 °CMelting point80 - 84 °CBoiling pointNo information available.Flash pointNo information available.Flash pointNo information available.Flash pointNo information available.Flash pointNo information available.Flayporation rateNo information available.Lower explosion limitNo information available.Vapour pressureNo information available.Relative vapor densityNo information available.Water solubilityat 20 °C solublePartition coefficient: n- cotanol/water Auto-ignition temperatureNo information available.No information available.No information available.No information available.No information available.Partition coefficient: n- cotanol/waterNo information available.No information available.No information available.	Form	powder
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octanol/water Auto-ignition temperature No information available.	Water solubility	
Auto-ignition temperature No information available.		No information available.
Decomposition temperature No information available.		No information available.
	Decomposition temperature	No information available.

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Viscosity, dynamic	No information available.
Explosive properties	No information available.
Oxidizing properties	No information available.
9.2 Other data	
none	

SECTION 10. Stability and reactivity

10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Violent reactions possible with:

Oxidizing agents

10.4 Conditions to avoid no information available

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

in the event of fire: See section 5.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Specific target organ toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard Based on available data the classification criteria are not met.

11.2 Further information

Quantitative data on the toxicity of this product are not available. Further toxicological data: Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. Further data: Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

12.1 Toxicity

No information available.

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12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

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Additional ecological information
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Discharge into the environment must be avoided.

SECTION 13. Disposal considerations

Waste treatment methods See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

TION 14. Transport information Land transport (ADR/RID)	
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
Inland waterway transport (ADN)	
Not relevant	
Air transport (IATA)	
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.
Sea transport (IMDG)	
14.1 - 14.6	Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant

SECTION 15. Regulatory information

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

EU regulations	
Major Accident Hazard	96/82/EC
Legislation	Directive 96/82/EC does not apply
National legislation	
Storage class	10 - 13

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16. Other information

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Training advice

Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.