Revision: 16.03.2012

SECTION 1: Identification of the substa	ance/mixture and of the comp		
1.1 Product identifier Trade name Stock number: 1.2 Relevant identified uses of the substanc Identified use:	H33474	ride dihydrate, may contain up to 10% Dihydroquini. gainst.	<u>ne</u>
1.3 Details of the supplier of the safety data		selopment	
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG A Johnson Matthey Company		
	Zennelinstr 7h		
	Tel: +49 (0) 721 84007 280		
	76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com		
Informing department:	www.alta.com	75 988687-0	
1.4 Emergency telephone number:	Carechem 24: +44 (o) 1235 239	75 988687-0 670 (Multi-language emergency number)	
	www.giftinfo.uni-mainz.de Telep	hone: +49(0)6131/19240	
SECTION 2: Hazards identification			
2.1 Classification of the substance or mixtur	re la		
Classification according to Regulation (EC)	No 1272/2008		
GHS07			
Acute Tox. 4 H302 Harmful if swallowed.			
Classification according to Directive 67/548/	EEC or Directive 1999/45/EC		
Xn; Harmful			
R22: Harmful if swallowed. Information concerning particular hazards			
for human and environment:	The product has to be labelled du preparations of the EU" in the lat	ue to the calculation procedure of the "General Classification guideline est valid version.	for
Other hazards that do not result in classification	No information known.		
2.2 Label elements			
Labelling according to Regulation (EC) No 1272/2008	The product is classified and lab	elled according to the CLP regulation.	
Hazard pictograms Signal word	GHS07 Warning		
Hazard-determining components of	wanning		
labelling: Hazard statements	Quinine monohydrochloride dihyd H302 Harmful if swallowed.	drate	
Precautionary statements	P264 Wash thoroughly aft	er handling.	
	P270 Do no eat, drink or s P301+P312 IF SWALLOWED: C	er handling. moke when using this product. all a POISON CENTER or doctor/physician if you feel unwell.	
	P330 Rinse mouth.		
	P501 Dispose of contents/	container in accordance with local/regional/national/international regu	lations.
2.3 Other hazards Results of PBT and vPvB assessment	P501 Dispose of contents/	container in accordance with local/regional/national/international regu	lations.
	Not applicable.	container in accordance with local/regional/national/international regu	iations.
Results of PBT and vPvB assessment PBT: vPvB:	Not applicable. Not applicable.	container in accordance with local/regional/national/international regu	lations.
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of	Not applicable. Not applicable.	container in accordance with local/regional/national/international regu	lations.
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components:	Not applicable. Not applicable. In ingredients		
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 Quinine monohydrochlorid	Not applicable. Not applicable. In ingredients	Xn R22	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 CAS: 522-66-7 Dihydroquinine	Not applicable. Not applicable. In ingredients	IX Xn R22	
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 Quinine monohydrochlorid	Not applicable. Not applicable. In ingredients	Xn R22	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 CAS: 522-66-7 EINECS: 208-334-0 Additional information	Not applicable. Not applicable. In ingredients de dihydrate	IX Xn R22	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 CAS: 522-66-7 EINECS: 208-334-0 Dihydroquinine	Not applicable. Not applicable. In ingredients de dihydrate	IX Xn R22	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 CAS: 522-66-7 EINECS: 208-334-0 Additional information SECTION 4: First aid measures	Not applicable. Not applicable. In ingredients de dihydrate None known. Supply fresh air. If required, prov	IX Xn R22	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 CAS: 522-66-7 EINECS: 208-334-0 Additional information SECTION 4: First aid measures 4.1 Description of first aid measures After inhalation	Not applicable. Not applicable. In ingredients de dihydrate None known. Supply fresh air. If required, prov persist. Seek immediate medical advice.	X Xn R22	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 CAS: 621-437-7 EINECS: 208-334-0 Additional information SECTION 4: First aid measures After inhalation After skin contact	Not applicable. Not applicable. In ingredients de dihydrate None known. Supply fresh air. If required, prov persist. Seek immediate medical advice. Instantly wash with water and so. Seek immediate medical advice.	 Xn R22 Acute Tox. 4, H302 Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 ide artificial respiration. Keep patient warm. Consult doctor if symptom ap and rinse thoroughly. 	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 CAS: 522-66-7 EINECS: 208-334-0 Additional information SECTION 4: First aid measures 4.1 Description of first aid measures After inhalation After skin contact After eye contact After eye contact After swallowing	Not applicable. Not applicable. In ingredients de dihydrate None known. Supply fresh air. If required, prov persist. Seek immediate medical advice. Instantly wash with water and so. Seek immediate medical advice.	X Xn R22	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 Quinine monohydrochlorid EINECS: 231-437-7 CAS: 522-66-7 Dihydroquinine EINECS: 208-334-0 Additional information SECTION 4: First aid measures 4.1 Description of first aid measures After skin contact After skin contact	Not applicable. Not applicable. In ingredients de dihydrate None known. Supply fresh air. If required, prov persist. Seek immediate medical advice. Instantly wash with water and so Seek immediate medical advice. Rinse opened eye for several mi	 Xn R22 Acute Tox. 4, H302 Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 ide artificial respiration. Keep patient warm. Consult doctor if symptom ap and rinse thoroughly. hutes under running water. Then consult doctor. 	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 Quinine monohydrochlorid EINECS: 231-437-7 CAS: 522-66-7 EINECS: 208-334-0 Additional information SECTION 4: First aid measures 4.1 Description of first aid measures After skin contact After skin contact After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical	Not applicable. Not applicable. On ingredients de dihydrate None known. Supply fresh air. If required, prov persist. Seek immediate medical advice. Instantly wash with water and so Seek immediate medical advice. Rinse opened eye for several mi Seek medical treatment. No further relevant information a	 Xn R22 Acute Tox. 4, H302 Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 ide artificial respiration. Keep patient warm. Consult doctor if symptom ap and rinse thoroughly. nutes under running water. Then consult doctor. vailable. 	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 Quinine monohydrochlorid EINECS: 231-437-7 CAS: 5522-66-7 EINECS: 208-334-0 Additional information SECTION 4: First aid measures After inhalation After skin contact After skin contact After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed	Not applicable. Not applicable. In ingredients de dihydrate None known. Supply fresh air. If required, prov persist. Seek immediate medical advice. Instantly wash with water and so. Seek immediate medical advice. Rinse opened eye for several mit Seek medical treatment.	 Xn R22 Acute Tox. 4, H302 Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 ide artificial respiration. Keep patient warm. Consult doctor if symptom ap and rinse thoroughly. nutes under running water. Then consult doctor. vailable. 	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 Quinine monohydrochlorid CAS: 522-66-7 EINECS: 208-334-0 Additional information SECTION 4: First aid measures 4.1 Description of first aid measures After skin contact After skin contact After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed SECTION 5: Firefighting measures	Not applicable. Not applicable. On ingredients de dihydrate None known. Supply fresh air. If required, prov persist. Seek immediate medical advice. Instantly wash with water and so Seek immediate medical advice. Rinse opened eye for several mi Seek medical treatment. No further relevant information a	 Xn R22 Acute Tox. 4, H302 Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 ide artificial respiration. Keep patient warm. Consult doctor if symptom ap and rinse thoroughly. nutes under running water. Then consult doctor. vailable. 	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 CAS: 522-66-7 EINECS: 208-334-0 Additional information SECTION 4: First aid measures 4.1 Description of first aid measures After skin contact After skin contact After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed SECTION 5: Firefighting measures 5.1 Extinguishing media	Not applicable. Not applicable. In ingredients de dihydrate None known. Supply fresh air. If required, prov persist. Seek immediate medical advice. Instantly wash with water and so. Seek immediate medical advice. Rinse opened eye for several mit Seek medical treatment. No further relevant information at No further relevant information at	 Xn R22 Acute Tox. 4, H302 Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 ide artificial respiration. Keep patient warm. Consult doctor if symptom ap and rinse thoroughly. nutes under running water. Then consult doctor. vailable. 	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 Quinine monohydrochlorid CAS: 522-66-7 EINECS: 208-334-0 Additional information SECTION 4: First aid measures 4.1 Description of first aid measures After skin contact After skin contact After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed SECTION 5: Firefighting measures	Not applicable. Not applicable. In ingredients de dihydrate Supply fresh air. If required, prov persist. Seek immediate medical advice. Instantly wash with water and so Seek immediate medical advice. Rinse opened eye for several mit Seek medical treatment. No further relevant information at No further relevant information at No further relevant information at No further relevant information at CO2, extinguishing powder or wa If this product is involved in a fire	 Xn R22 Acute Tox. 4, H302 Xi R36/37/38 Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 ide artificial respiration. Keep patient warm. Consult doctor if symptom ap and rinse thoroughly. hutes under running water. Then consult doctor. /ailable. /ailable. ter jet. Fight larger fires with water jet or alcohol-resistant foam. the following can be released: 	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 Quinine monohydrochlorid EINECS: 231-437-7 CAS: 522-66-7 Dihydroquinine EINECS: 208-334-0 Additional information SECTION 4: First aid measures 4.1 Description of first aid measures After skin contact After skin contact After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing agents 5.2 Special hazards arising from the	Not applicable. Not applicable. on ingredients de dihydrate None known. Supply fresh air. If required, prov persist. Seek immediate medical advice. Instantly wash with water and so Seek immediate medical advice. Rinse opened eye for several mit Seek medical treatment. No further relevant information at No further relevant information at No further relevant information at CO2, extinguishing powder or wat If this product is involved in a fire Carbon monoxide and carbon did Nitrogen oxides (NOX)	 Xn R22 Acute Tox. 4, H302 Xi R36/37/38 Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 ide artificial respiration. Keep patient warm. Consult doctor if symptom ap and rinse thoroughly. hutes under running water. Then consult doctor. /ailable. /ailable. ter jet. Fight larger fires with water jet or alcohol-resistant foam. the following can be released: 	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 CAS: 522-66-7 EINECS: 208-334-0 Additional information SECTION 4: First aid measures 4.1 Description of first aid measures After inhalation After skin contact After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing agents 5.2 Special hazards arising from the substance or mixture	Not applicable. Not applicable. In ingredients de dihydrate Supply fresh air. If required, prov persist. Seek immediate medical advice. Instantly wash with water and so Seek immediate medical advice. Rinse opened eye for several mit Seek medical treatment. No further relevant information at No further relevant information at No further relevant information at No further relevant information at CO2, extinguishing powder or wa If this product is involved in a fire	 Xn R22 Acute Tox. 4, H302 Xi R36/37/38 Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 ide artificial respiration. Keep patient warm. Consult doctor if symptom ap and rinse thoroughly. hutes under running water. Then consult doctor. /ailable. /ailable. ter jet. Fight larger fires with water jet or alcohol-resistant foam. the following can be released: 	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 Quinine monohydrochlorid EINECS: 231-437-7 CAS: 522-66-7 Dihydroquinine EINECS: 208-334-0 Additional information SECTION 4: First aid measures 4.1 Description of first aid measures After skin contact After skin contact After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing agents 5.2 Special hazards arising from the	Not applicable. Not applicable. on ingredients de dihydrate None known. Supply fresh air. If required, prov persist. Seek immediate medical advice. Instantly wash with water and so: Seek immediate medical advice. Rinse opened eye for several mit Seek medical treatment. No further relevant information at No further relevant information at No further relevant information at CO2, extinguishing powder or wa If this product is involved in a fire Carbon monoxide and carbon did Nitrogen chloride (HCI) Wear self-contained breathing ap	 Xn R22 Acute Tox. 4, H302 Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 ide artificial respiration. Keep patient warm. Consult doctor if symptom ap and rinse thoroughly. nutes under running water. Then consult doctor. yailable. ter jet. Fight larger fires with water jet or alcohol-resistant foam. , the following can be released: xide 	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 Quinine monohydrochlorid Quinine monohydrochlorid CAS: 522-66-7 EINECS: 208-334-0 Dihydroquinine Additional information SECTION 4: First aid measures After skin contact After skin contact After skin contact After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing agents 5.2 Special hazards arising from the substance or mixture 5.3 Advice for firefighters Protective equipment:	Not applicable. Not applicable. on ingredients de dihydrate Supply fresh air. If required, prov persist. Seek immediate medical advice. Instantly wash with water and so Seek immediate medical advice. Rinse opened eye for several mir Seek medical treatment. No further relevant information ar No further relevant information ar CO2, extinguishing powder or wa If this product is involved in a fire Carbon monoxide and carbon did Nitrogen oxides (NOX) Hydrogen chloride (HCI) Wear self-contained breathing af Wear full protective suit.	 Xn R22 Acute Tox. 4, H302 Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 ide artificial respiration. Keep patient warm. Consult doctor if symptom ap and rinse thoroughly. nutes under running water. Then consult doctor. yailable. ter jet. Fight larger fires with water jet or alcohol-resistant foam. , the following can be released: xide 	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 Quinine monohydrochlorid Quinine monohydrochlorid EINECS: 208-334-0 Additional information Dihydroquinine SECTION 4: First aid measures After skin contact After skin contact After swallowing 4.1 Description of first aid measures After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing agents 5.2 Special hazards arising from the substance or mixture 5.3 Advice for firefighters Protective equipment: SECTION 6: Accidental release measure	Not applicable. Not applicable. on ingredients de dihydrate Supply fresh air. If required, prov persist. Seek immediate medical advice. Instantly wash with water and so Seek immediate medical advice. Rinse opened eye for several mir Seek medical treatment. No further relevant information ar No further relevant information ar CO2, extinguishing powder or wa If this product is involved in a fire Carbon monoxide and carbon did Nitrogen oxides (NOX) Hydrogen chloride (HCI) Wear self-contained breathing af Wear full protective suit.	 Xn R22 Acute Tox. 4, H302 Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 ide artificial respiration. Keep patient warm. Consult doctor if symptom ap and rinse thoroughly. nutes under running water. Then consult doctor. yailable. ter jet. Fight larger fires with water jet or alcohol-resistant foam. , the following can be released: xide 	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 Quinine monohydrochlorid Quinine monohydrochlorid CAS: 522-66-7 EINECS: 208-334-0 Dihydroquinine Additional information SECTION 4: First aid measures After skin contact After skin contact After skin contact After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing agents 5.2 Special hazards arising from the substance or mixture 5.3 Advice for firefighters Protective equipment:	Not applicable. Not applicable. Dr. ingredients de dihydrate None known. Supply fresh air. If required, prov persist. Seek immediate medical advice. Instantly wash with water and so Seek immediate medical advice. Rinse opened eye for several mit Seek medical treatment. No further relevant information at No further relevant information at No further relevant information at CO2, extinguishing powder or wa If this product is involved in a fire Carbon monoxide and carbon did Nitrogen chloride (HCI) Wear self-contained breathing af Wear protective equipment. Keep	 Xn R22 Acute Tox. 4, H302 Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 ide artificial respiration. Keep patient warm. Consult doctor if symptom ap and rinse thoroughly. hutes under running water. Then consult doctor. /ailable. /ailable. /ailable. ter jet. Fight larger fires with water jet or alcohol-resistant foam. , the following can be released: xxide mparatus. 	92,0%
Results of PBT and vPvB assessment PBT: vPvB: SECTION 3: Composition/information of 3.2 Mixtures Dangerous components: CAS: 6119-47-7 EINECS: 231-437-7 Quinine monohydrochlorid EINECS: 208-334-0 Additional information SECTION 4: First aid measures 4.1 Description of first aid measures After skin contact After skin contact After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing agents 5.2 Special hazards arising from the substance or mixture 5.3 Advice for firefighters Protective equipment: SECTION 6: Accidental release measure 6.1 Personal precautions, protective	Not applicable. Not applicable. In ingredients de dihydrate None known. Supply fresh air. If required, prov persist. Seek immediate medical advice. Instantly wash with water and so Seek immediate medical advice. Rinse opened eye for several min Seek medical treatment. No further relevant information ar No further relevant information ar No further relevant information ar CO2, extinguishing powder or wa If this product is involved in a fire Carbon monoxide and carbon did Nitrogen chloride (HCI) Wear self-contained breathing ap Wear full protective suit. res Wear protective equipment. Keep	X N R22 ♦ Acute Tox. 4, H302 X XI R36/37/38 ♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 ide artificial respiration. Keep patient warm. Consult doctor if symptom ap and rinse thoroughly. hutes under running water. Then consult doctor. vailable. vailable. ter jet. Fight larger fires with water jet or alcohol-resistant foam. , the following can be released: xide oparatus.	92,0%

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Trade name Quinine monohydrochloride dihydrate, may contain up to 10% Dihydroquinine

	Contd. of page 1)
6.3 Methods and material for containment	Do not allow to enter the ground/soil.
and cleaning up: Prevention of secondary hazards:	Dispose of contaminated material as waste according to item 13. No special measures required.
6.4 Reference to other sections	See Section 7 for information on safe handling See section 8 for information on personal protection equipment.
	See Section 13 for information on disposal.
SECTION 7: Handling and storage	
7.1 Precautions for safe handling	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers.
Information about protection against	Ensure good ventilation/exhaustion at the workplace.
explosions and fires: 7.2 Conditions for safe storage, including a	No information known.
Storage Requirements to be met by storerooms and	
containers: Information about storage in one common	No special requirements.
storage facility:	Store in the dark. Store away from oxidizing agents.
Further information about storage conditions:	Keep container tightly sealed.
	Store in cool, dry conditions in well sealed containers. Protect from the effects of light.
7.3 Specific end use(s)	No further relevant information available.
SECTION 8: Exposure controls/perso	nal protection
Additional information about design of technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity
8.1 Control parameters	of at least 100 feet per minute.
Components with critical values that requir monitoring at the workplace:	re The product does not contain any relevant quantities of materials with critical values that have to be monitored
Additional information:	at the workplace. No data
8.2 Exposure controls	
Personal protective equipment General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals.
	Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.
	Wash hands during breaks and at the end of the work. Maintain an ergonomically appropriate working environment. Use breathing protection with high concentrations.
Breathing equipment: Protection of hands:	Check protective gloves prior to each use for their proper condition.
	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Material of gloves Penetration time of glove material	Impervious gloves Not determined
Eye protection: Body protection:	Safety glasses Protective work clothing.
SECTION 9: Physical and chemical pr	operties
9.1 Information on basic physical and chen General Information	nical properties
Appearance: Form:	Crystalline
Colour: Smell:	White Not determined
Odour threshold:	Not determined.
pH-value: Change in condition	Not applicable.
Melting point/Melting range: Boiling point/Boiling range:	Not determined Not determined
Sublimation temperature / start: Inflammability (solid, gaseous)	Not determined Not determined
Ignition temperature: Decomposition temperature:	Not determined Not determined
Self-inflammability: Critical values for explosion:	Product is not selfigniting.
Lower: Upper:	Not determined Not determined
Steam pressure: Density	Not applicable. Not determined
Relative density Vapour density	Not determined. Not applicable.
Evaporation rate Solubility in / Miscibility with	Not applicable.
Water: Partition coefficient (n-octanol/water):	Insoluble Not determined.
Viscosity: dynamic:	Not applicable.
kínematic:	Not applicable. Not applicable.
Solvent content: Organic solvents:	0,0 %
Solids content: 9.2 Other information	100,0 % No further relevant information available.
SECTION 10: Stability and reactivity	
10.1 Reactivity 10.2 Chemical stability	No information known. Stable under recommended storage conditions.

(Contd. on page 3) DE/E

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Trade name Quinine monohydrochloride dihydrate, may contain up to 10% Dihydroquinine				
The second secon	(Contd. of page 2)			
Thermal decomposition / conditions to be avoided:	No decomposition if used and stored according to specifications.			
10.3 Possibility of hazardous reactions 10.5 Incompatible materials:	Reacts with strong oxidizing agents Oxidizing agents			
10.6 Hazardous decomposition products:	Light			
• •	Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen chloride (HCI)			
SECTION 44: Toxicological information				
SECTION 11: Toxicological information 11.1 Information on toxicological effects				
Acute toxicity:	Harmful if swallowed.			
LD/LC50 values that are relevant for classific 6119-47-7 Quinine monohydrochloride dihydr				
Oral LD50 620 mg/kg (rat) Skin irritation or corrosion:	May cause irritation			
Eye irritation or corrosion:	May cause irritation			
Sensitization: Germ cell mutagenicity:	No sensitizing effect known. No effects known.			
Carcinogenicity:	No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.			
Reproductive toxicity: Specific target organ system toxicity -	No effects known.			
repeated exposure: Specific target organ system toxicity - single	No effects known.			
exposure:	No effects known. No effects known.			
Aspiration hazard: Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
	The product shows the following dangers according to the calculation method of the Géneral EC Classification Guidelines for Preparations as issued in the latest version:			
	Harmful			
SECTION 12: Ecological information				
12.1 Toxicity Aquatic toxicity:	No further relevant information available.			
12.2 Persistence and degradability 12.3 Bioaccumulative potential	No further relevant information available. No further relevant information available.			
12.4 Mobility in soil	No further relevant information available.			
Additional ecological information: General notes:	Do not allow material to be released to the environment without proper governmental permits.			
	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.			
12.5 Results of PBT and vPvB assessment	Avoid transfer into the environment.			
PBT: vPvB:	Not applicable. Not applicable.			
12.6 Other adverse effects	No further relevant information available.			
SECTION 13: Disposal considerations				
13.1 Waste treatment methods Recommendation	Hand over to disposers of hazardous waste.			
	Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.			
Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.			
SECTION 14: Transport information UN-Number				
ÁDR, ÁDN, IMDG, IATA	Not applicable			
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Not applicable			
14.3 Transport hazard class(es)				
ADR, ADN, IMDG, IATA Class	Not applicable			
Packing group ADR, IMDG, IATA				
ADR, IMDG, IATA 14.5 Environmental hazards:	Not applicable			
Marine pollutant:	No			
14.6 Special precautions for user	Not applicable.			
14.7 Transport in bulk according to Annex II Code	of MARPOL73/78 and the IBC Not applicable.			
UN "Model Regulation":	-			
SECTION 15: Regulatory information				
15.1 Safety, health and environmental regulation	ations/legislation specific for the substance or mixture			
Australian Inventory of Chemical Substances 6119-47-7 Quinine monohydrochloride dihydrat	s			
Standard for the Uniform Scheduling of Drug				
None of the ingredients is listed.				
National regulations Information about limitation of use:	For use only by technically qualified individuals.			
Classification according to VbF:	Employment réstrictions concerning young persons must be observed. Not applicable			
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.			
	(Contd. on page 4)			

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Trade name Quinine monohydrochloride dihydrate, may contain up to 10% Dihydroquinine			
	(Contd. of page 3)		
Other regulations, limitations and prohibi			
ELINCS (European List of Notified Chemical Substances)			
None of the ingredients is listed.			
Substances of very high concern (SVHC) according to REACH, Article 57			
None of the ingredients are listed.			
REACH - Pre-registered substances			
All ingredients are listed.			
15.2 Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.		
this information to ensure proper use and pronot in conformance with this Material Safety Relevant phrases	as a supplement to other information gathered by them, and should make independent judgement of suitability of tect the health and safety of employees. This information is furnished without warranty, and any use of the product Data Sheet, or in combination with any other product or process, is the responsibility of the user. H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.		
Department issuing data specification she Abbreviations and acronyms:	H335 May cause respiratory irritation. R22 Harmful if swallowed. R36/37/38 Irritating to eyes, respiratory system and skin. Bet: Health, Safety and Environmental Department. RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) AOR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) GH3: Globally Harmonized System of Classification and Labelling of Chemicals VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria) LC50: Lethal concentration, 50 percent DE/E		