

Information Data Sheet

COLOROBE S.P.A.	COLOROBBIA ITALIA S.P.A.				HSC0	02555		
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Italy

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name	:	HSC002555
Product code Other means of identification	:	000000000010058626 HR56006GR

1.2 <u>Relevant identified uses of the substance or mixture and uses advised against</u>

Identified uses : Third firing decoration in the glass/ceramics/porcelain sectors

Uses advised against	Reason
Not recommended for aerosol or spray use.	Improper use would result in exposure to respirable
	fraction crystalline silica.

1.3 Details of the supplier of the safety data sheet

COLOROBBIA ITALIA S.P.A. Indirizzo via Pietramarina 53 Località e Stato 50053 Sovigliana - Vinci (FI) Italia tel. +39 0571 7091 fax +39 0571 709.850

e-mail address of person : <u>QHSE@colorobbia.it</u> responsible for this SDS 1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number:CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06
68593726
Az. Ospedaliera Università Foggia - Foggia - tel. 800183459
Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870
CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000Version:5.2Date of issue/Date of revision:01.11.2024Date of previous issue:26.07.2024



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> CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343 Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819 CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel. $+39\ 0382\ 24444$ Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition Mixture :

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word Hazard statements	:	No signal word. No known significant effects or critical hazards.
Hazaru statements	•	No known significant effects of efficial hazards.
Precautionary statements		
General	:	P103 - Read carefully and follow all instructions.P102 - Keep out of reach of children.P101 - If medical advice is needed, have product container or label at hand.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
<u>Special packaging requirements</u> Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.

2.3 Other hazards

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Product meets the criteria
for PBT or vPvB: This mixture does not contain any substances that are assessed to be a PBT or a
vPvB.according to Regulation
(EC) No. 1907/2006,
Annex XIII
Other hazards which do
not result in classification: This product contains less than 1% crystalline silica respirable fraction and
therefore does not require classification in accordance with Regulation (EU)
1272/2008 of the European Parliament and of the Council of 16 December 2008
on classification, labelling and packaging of substances and mixtures, amending

SECTION 3: Composition/information on ingredients

(EC) No 1907/2006.

3.2 Mixtures	:	Mixture					
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M- factors and ATEs	Туре		
tin dioxide	EC : 242-159-0 CAS : 18282-10-5	> 0 - <= 3	Not classified.	-	[1]		

and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation

See Section 16 for the full text of the H statements declared above. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

Substance classified with a health or environmental hazard

[1] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

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Over-exposure signs/symptoms

Eye contact Inhalation	 Adverse symptoms may include the following: irritation, redness Adverse symptoms may include the following: respiratory tract irritation, coughing
Skin contact Ingestion	 No specific data. No specific data.
4.3 Indication of any imme	diate medical attention and special treatment needed

Notes to physician	:	Treat symptomatically. Contact poison treatment specialist
		immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire. None known.
5.2 Special hazards arising from the	subs	tance or mixture
Hazards from the substance or mixture	:	No specific fire or explosion hazard.
Hazardous combustion products	:	Decomposition products may include the following materials: metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Put on appropriate personal
For emergency responders	:	protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.
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See also the information in "For non-emergency personnel".

6.2 Environmental precautions Avoid dispersal of spilled material and runoff and contact with soil, : waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

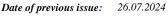
7.3 Specific end use(s)

Recommendations	:	Not available.
Industrial sector specific	:	Not available.
solutions		

SEC'I **ION 8: Exposure controls/personal protection**

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The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
tin dioxide (tin (inorganic	EU OEL (1991-07-01).
compounds) (as Sn))	TWA 2 mg/m3 (as Sn)

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures	followin Guidanc agents fe Europea the appl to chem (Workpl perform Reference	eg: European Star ce for the assessm or comparison wi in Standard EN 1- ication and use of ical and biologica lace atmospheres ance of procedure ce to national gui	le to monitoring standards, hdard EN 689 (Workplace hent of exposure by inhalat th limit values and measur 4042 (Workplace atmosph f procedures for the assess al agents) European Standa - General requirements fo es for the measurement of dance documents for meth us substances will also be	atmospheres - ion to chemical rement strategy) eres - Guide for ment of exposure ard EN 482 r the chemical agents) nods for the
DNELs/DMELs No DNELs/DMELs available.				
PNECs No PNECs available.				
8.2 Exposure controls				
Appropriate engineering cont	fumes, g ventilati	as, vapor or mist on or other engin	entilation. If user operatio , use process enclosures, le eering controls to keep we low any recommended or	ocal exhaust orker exposure to
Individual protection measure	<u>es</u>		·	•
Hygiene measures	products end of th remove clothing showers	s, before eating, so ne working period potentially contain before reusing. E are close to the v	d face thoroughly after has moking and using the lava I. Appropriate techniques minated clothing. Wash co Ensure that eyewash station workstation location.	tory and at the should be used to ntaminated
Eye/face protection	: We reco	mmend wearing	protective glasses,	
Skin protection Hand protection	• If prolor	and contact with	the product is expected, it	is advisable to
manu protection			gloves resistant to penetrat	
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		EN 374). For the final choice of the material of the work gloves, it is also necessary to evaluate the process of use of the product and any other resulting products. It should also be remembered that latex gloves can give rise to sensitization phenomena.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state Color Odor	:	liquid [Powder.] Various Odorless.
Odor threshold	:	Not available.
Melting point/freezing point	:	Not available.
Initial boiling point and boiling range	:	Not available.
Flammability	:	Not available.
Lower and upper explosion limit	:	Lower: Not applicable. Upper: Not applicable.

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Flash point	:	Ingredient name	Flash point
r asn pont	•	cyclohexane	Closed cup: -20 °C (-4 °F)
		eyelonexule	
		propane-1,2-diol	Closed cup: 99 °C (210
		propane-1,2-dior	°F)
			Closed cup: 98,89 °C
			(210,00 °F)
		2-phenoxyethanol	Closed cup: 126 °C (259
			°F) (EU A.9)
Auto-ignition temperature	:	Not applicable.	
Decomposition temperature	:	Not available.	
рН	:	Not available.	
Viscosity	:	Dynamic : Not available.	
		Kinematic : Not available.	
Solubility in water	:	Not available.	
Partition coefficient: n-	:	Not applicable.	
octanol/water			
Vapor pressure	:	Ingredient name	Vapor pressure
		cyclohexane	124 hPa (@ 24 °C) (75 °F)
		water	31,73 hPa (@ 25 °C) (77
		water	°F)
			·
		propane-1,2-diol	0,2 hPa (@ 25 °C) (77 °F) (EU A.4)
			· · · ·
		2-phenoxyethanol	0,18 hPa (@ 50 °C) (122 °F) (EU A.4) 0,01 hPa (@
			20 °C) (68 °F) (EU A.4)
			0,02 hPa (@ 25 °C) (77 °F)
			(EU A.4)
Relative density	:	Not available.	
Vapor density	:	Not applicable.	
Explosive properties Oxidizing properties	:	Not available. Not available.	
Oxidizing properties	:	Not available.	
Particle characteristics			
Median particle size	:	Not applicable.	
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SECTION 10: Stability and reactivity

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	No specific data.
10.5 Incompatible materials	:	No specific data.
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
tin dioxide				
	LD50 Oral	Rat	20.000 mg/kg	-

Conclusion/Summary

: Not available.

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
tin dioxide	20000 mg/kg	N/A	N/A	N/A	N/A

Irritation/Corrosion

Conclusion/Summary		
Skin	:	Not available.
Eyes	:	Not available.
Respiratory	:	Not available.
Sensitization		
Conclusion/Summary		
Skin	:	Not available.
Respiratory	:	Not available.
Mutaganicity		

Mutagenicity

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Conclusion/Summary	:	Not available.
Carcinogenicity		
		hazard of this product arises when respirable dust is inhaled in nt of particle clearance mechanisms in the lung. Not available.
Reproductive toxicity		
Conclusion/Summary	:	Not available.
Teratogenicity		
Conclusion/Summary	:	Not available.
Specific target organ toxicity (sing Not available.	le exp	posure)
Specific target organ toxicity (repe Not available.	<u>ated</u>	<u>exposure)</u>
Aspiration hazard Not available.		
Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	Exposure to airborne concentrations above statutory or
Inhalation	:	recommended exposure limits may cause irritation of the eyes. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact Ingestion	:	No known significant effects or critical hazards. No known significant effects or critical hazards.
Symptoms related to the physical, cl	nemi	cal and toxicological characteristics
Eye contact Inhalation	:	Adverse symptoms may include the following: irritation, redness Adverse symptoms may include the following: respiratory tract irritation, coughing
Skin contact Ingestion	:	No specific data. No specific data.
Delayed and immediate effects and a	lso cl	hronic effects from short and long term exposure
Short term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.

Long term exposure

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Potential immediate effects Potential delayed effects	:	Not available. Not available.
Potential chronic health effects		
Conclusion/Summary	:	Not available.
General	:	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.

11.2. Information on other hazards

11.2.1 Endocrine disrupting properties	:	Not available.
11.2.2 Other information	:	Not available.

SECTION 12: Ecological information

:

12.1 Toxicity
Conclusion/Summary

Not available.

12.2 Persistence and degradability

Conclusion/Summary	:	Not available.
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12.3 Bioaccumulative potential Not available.

12.4 Mobility in soil

Soil/water partition coefficient	:	Not available.
(KOC)		
Mobility	:	Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties	:	Not available.
12.7 Other adverse effects	:	No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

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13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal Hazardous waste	 The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Within the present knowledge of the supplier, this product is not
	regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	-	-	-
14.2 UN proper shipping name	Not regulated.	Not regulated.	Not regulated.
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5. Environmental hazards	No.	No.	No.

14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not available.

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SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization Annex XIV None of the components are listed.

Substances of very high concern None of the components are listed.

Annex XVII - Restrictions on : Not applicable. the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Occupational exposure to respirable crystalline silica must be controlled in accordance with Directive (EU) 2022/431 of the European Parliament and of the Council of 9 March 2022 amending Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work.

Other EU regulations

Industrial emissions (integrated : Not listed pollution prevention and control) - Air Industrial emissions (integrated : Not listed pollution prevention and control) - Water <u>Ozone depleting substances (1005/2009/EU)</u> None of the components are listed.

Prior Informed Consent (PIC) (649/2012/EU)

None of the components are listed.

Persistent Organic Pollutants

None of the components are listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

D.Lgs. 152/06 International regulations

Not determined.

Chemical Weapon Convention List Schedules I, II & III Chemicals

:

Chemical Weapons Convention List Schedule I Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule II Chemicals

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None of the components are listed.

Chemical Weapons Convention List Schedule III Chemicals

None of the components are listed.

Montreal Protocol

None of the components are listed.

Stockholm Convention on Persistent Organic Pollutants

Annex A - Elimination - Production

None of the components are listed.

Annex A - Elimination - Use

None of the components are listed.

Annex B - Restriction - Production

None of the components are listed.

Annex B - Restriction - Use

None of the components are listed.

Annex C - Unintentional - Production

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Rotterdam Convention on Prior Informed Consent (PIC) - Industrial

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) -Severely hazardous pesticide None of the components are listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Heavy metals - Annex 1

None of the components are listed.

POPs - Annex 1 - Production

None of the components are listed.

POPs - Annex 1 - Use

None of the components are listed.

POPs - Annex 2

None of the components are listed.

POPs - Annex 3

None of the components are listed.

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Inventory list

Australia	:	Not determined.	
Canada	:	At least one component is not listed in DSL but all such	
		components are listed in NDSL.	
China	:	All components are listed or exempted.	
Eurasian Economic Union	:	Russian Federation inventory: Not determined.	
Japan	:	Japan inventory (CSCL): Not determined.	
		Japan inventory (ISHL): Not determined.	
New Zealand	:	All components are listed or exempted.	
Philippines	:	All components are listed or exempted.	
Republic of Korea	:	All components are listed or exempted.	
Taiwan	:	All components are listed or exempted.	
Thailand	:	Not determined.	
Turkey	:	Not determined.	
United States	:	All components are active or exempted.	
Viet Nam	:	All components are listed or exempted.	
15.2 Chemical Safety Assessment	:	This product contains substances for which Chemical Safety Assessments are still required.	

SECTION 16: Other information

Abbreviations and acronyms	:	ATE = Acute Toxicity Estimate
		CLP = Classification, Labelling and Packaging Regulation
		[Regulation (EC) No. 1272/2008]
		DMEL = Derived Minimal Effect Level
		DNEL = Derived No Effect Level
		EUH statement = CLP-specific Hazard statement
		N/A = Not available
		PBT = Persistent, Bioaccumulative and Toxic
		PNEC = Predicted No Effect Concentration
		RRN = REACH Registration Number
		SGG = Segregation Group
		vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Not classified.

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

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To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Notwithstanding the above, the provisions of this clause shall not apply in the event of supplier wilful misconduct (dolo), in which case the provisions of current legislation shall apply.

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