COLOROBBIA

Information Data Sheet

COLOROBBIA ITALIA			HSC002554					
S.P.A.								
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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 : HSC--002554

Product code : 00000000010058625

Other means of identification : HR56005GR

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

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.

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Località e Stato 50053 Sovigliana - Vinci (FI)

Italia

tel. +39 0571 7091 fax +39 0571 709.850

e-mail address of person responsible for this SDS 1.4 Emergency telephone number QHSE@colorobbia.it

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 49978000



CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343 Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819

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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 : No signal word.

Hazard statements : No known significant effects or critical 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

Not applicable.

and articles

Special packaging requirements

Containers to be fitted with child-resistant fastenings

Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards



for PBT or vPvB according to Regulation (EC) No. 1907/2006, **Annex XIII** Other hazards which do not result in classification

Product meets the criteria: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

> : 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 and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006.

SECTION 3: Composition/information on ingredients

3.2 Mixtures Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M- factors and ATEs	Туре
Quartz (SiO2)	EC: 238-878-4 CAS: 14808-60-7	> 0 - <= 3	Not classified.	-	[1]
Cobalt aluminate blue spinel	REACH#: 01- 2119963940-31- XXXX EC: 310-193-6 CAS: 1345-16-0	> 0 - <= 3	Not classified.	-	[1]

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.

Inhalation

Skin contact

Ingestion

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.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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

Over-exposure signs/symptoms

Eye contact Adverse symptoms may include the following: irritation, redness Inhalation

Adverse symptoms may include the following: respiratory tract

irritation, coughing

Skin contact No specific data. No specific data. **Ingestion**

4.3 Indication of any immediate 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

Use an extinguishing agent suitable for the surrounding fire. Suitable extinguishing media Unsuitable extinguishing media None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or No specific fire or explosion hazard. mixture

Hazardous combustion products Decomposition products may include the following materials: halogenated compounds, metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for Promptly isolate the scene by removing all persons from the vicinity fire-fighters 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 selfcontained 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 protective equipment.

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. 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 Industrial sector specific solutions Not available.Not available.

SECTION 8: Exposure controls/personal protection

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
Quartz (SiO2)	Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (2023). TWA 10 mg/m3 (Inorganic dust) Form: Inhalable TWA 3 mg/m3 (Inorganic dust) Form: Respirable EU OEL. TWA 3 mg/m3
Cobalt aluminate blue spinel	Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (2023). TWA 10 mg/m3 (Inorganic dust) Form: Inhalable TWA 3 mg/m3 (Inorganic dust) Form: Respirable

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available.



8.2 Exposure controls

Appropriate engineering controls

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection
Skin protection
Hand protection

: We recommend wearing protective glasses,

: If prolonged contact with the product is expected, it is advisable to protect hands with work gloves resistant to penetration (ref. Standard 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 : liquid [Powder.]

ColorVariousOdorOdorless.Odor thresholdNot available.Melting point/freezing pointNot available.



Initial boiling point and boiling

range

: Not available.

Flammability : Not available.

Lower and upper explosion limit : **Lower:** Not applicable.

Upper: Not applicable.

Flash point

Ingredient name	Flash point
cyclohexane	Closed cup: -20 °C (-4 °F)
propane-1,2-diol	Closed cup: 99 °C (210
	°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.

pH : Not available.

Viscosity : Dynamic : Not available.

Kinematic: Not available.

Solubility in water : Not available.

Partition coefficient: n-

octanol/water

Not applicable.

Vapor pressure

Ingredient name	Vapor pressure
cyclohexane	124 hPa (@ 24 °C) (75 °F)
water	31,73 hPa (@ 25 °C) (77 °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: Not available.Oxidizing properties: Not available.



Particle characteristics

Median particle size : Not applicable.

SECTION 10: Stability and reactivity

10.1 ReactivityNo 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 : 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 : Under normal conditions of storage and use, hazardous **products** 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

reactions

Conclusion/Summary : Not available.

Acute toxicity estimates

N/A

Irritation/Corrosion

Conclusion/Summary

Skin: Not available.Eyes: Not available.Respiratory: Not available.

Sensitization

Conclusion/Summary

Skin: Not available.Respiratory: Not available.

Mutagenicity



Conclusion/Summary : Not available.

Carcinogenicity

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes : Not available.

of exposure

Potential acute health effects

Eye contact : Exposure to airborne concentrations above statutory or

recommended exposure limits may cause irritation of the eyes.

Inhalation : Exposure to airborne concentrations above statutory or

recommended exposure limits may cause irritation of the nose,

throat and lungs.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following: irritation, redness

Inhalation : Adverse symptoms may include the following: respiratory tract

irritation, coughing

Skin contact: No specific data.Ingestion: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: Not available.Potential delayed effects: Not available.

Long term exposure



Potential immediate effects : Not available.

Potential delayed effects : 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.

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).



13.1 Waste treatment methods

Product

Methods of disposal

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.

Hazardous waste

: 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.	

ADN

The product is only regulated as a dangerous good when transported in tank vessels.

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

Not available.

to IMO instruments

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 the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable.

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

Ozone depleting substances (1005/2009/EU)

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 : Not determined.

International regulations

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

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.

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 ZealandAll components are listed or exempted.PhilippinesAll components are listed or exempted.Republic of KoreaAll components are listed or exempted.TaiwanAll 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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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named 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.

