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1

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Description: Quartz, fine powder
Cat No. 451070000; 451070010; 451070050, 451070250

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

Recommended Use Laboratory chemicals
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company

Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

E-mail address begel.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01
For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99
Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300
CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Specific target organ toxicity - (repeated exposure)	Category 2
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Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

Symbol(s) Xn - Harmful

R-phrases(s)

Risk Combination Phrases R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation

Label Elements



Signal Word

Warning

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SECTION 2. HAZARDS IDENTIFICATION
Hazard Statements

H373 - May cause damage to organs through prolonged or repeated exposure if inhaled

Precautionary Statements - EU (§28, 1272/2008)

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P314 - Get medical advice/ attention if you feel unwell

Other Hazards

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC-No.	Weight %	CAS-No	DSD Classification - 67/548/EEC	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
Quartz 14808-60-7	EEC No. 238-878-4	>95	14808-60-7	Xn; R48/20	STOT RE 2 (H373)	-

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES
Description of first aid measures
Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Ingestion

Do not induce vomiting. Call a physician or Poison Control Center immediately.

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.

Notes to Physician

Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES
Extinguishing media
Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

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Thermal decomposition can lead to release of irritating gases and vapors

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

Environmental precautions

Should not be released into the environment.

Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Use only under a chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Component
Quartz

European Union	The United Kingdom	France	Belgium	Spain
	STEL: 0.3 mg/m ³ 15 min TWA: 0.1 mg/m ³ 8 hr	TWA / VME: 0.1 mg/m ³ (8 heures), restrictive limit	TWA: 0.1 mg/m ³ 8 uren	TWA / VLA-ED: 0.1 mg/m ³ (8 horas)

Component
Quartz

Italy	Germany	Portugal	The Netherlands	Finland
		TWA: 0.025 mg/m ³ 8 horas	TWA: 0.075 mg/m ³ 8 uren	TWA: 0.05 mg/m ³ 8 tunteina TWA: 0.2 mg/m ³ 8 tunteina

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Component	Austria	Denmark	Switzerland	Poland	Norway
Quartz	TWA: 0.15 mg/m ³ 8 Stunden TWA: 4 mg/m ³ 8 Stunden	TWA: 0.3 mg/m ³ 8 timer TWA: 0.1 mg/m ³ 8 timer	MAK: 0.15 mg/m ³ 8 Stunden	TWA: 2 mg/m ³ 8 godzinach TWA: 0.3 mg/m ³ 8 godzinach TWA: 4.0 mg/m ³ 8 godzinach TWA: 1.0 mg/m ³ 8 godzinach	TWA: 0.3 mg/m ³ 8 timer TWA: 0.1 mg/m ³ 8 timer STEL: 0.9 mg/m ³ 15 minutter. total dust STEL: 0.3 mg/m ³ 15 minutter. respirable dust

Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
Quartz	TWA: 0.07 mg/m ³	TWA: 0.1 mg/m ³ 8 satima. TWA: 0.1 mg/m ³ 8 satima. regulated under Quartz sand respirable dust	TWA: 0.1 mg/m ³ 8 hr. respirable dust		

Component	Estonia	Gibraltar	Greece	Hungary	Iceland
Quartz	TWA: 0.1 mg/m ³ 8 tundides. respirable dust			TWA: 0.15 mg/m ³ 8 órában. respirable	TWA: 0.3 mg/m ³ 8 klukkustundum. total dust TWA: 0.1 mg/m ³ 8 klukkustundum. respirable dust Ceiling: 0.6 mg/m ³ total dust Ceiling: 0.2 mg/m ³ respirable dust

Component	Latvia	Lithuania	Luxembourg	Malta	Romania
Quartz		TWA: 0.1 mg/m ³ respirable fraction			TWA: 0.1 mg/m ³ 8 ore

Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
Quartz	MAC: 1 mg/m ³	TWA: 0.1 mg/m ³ 8 hodinách STEL: 0.5 mg/m ³ 15 minútach	TWA: 0.15 mg/m ³ 8 urah respirable fraction	LLV: 0.1 mg/m ³ 8 timmar. respirable dust	

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

No information available.

Exposure controls
Engineering Measures

Ensure adequate ventilation, especially in confined areas

Personal protective equipment
Eye Protection

Safety glasses with side-shields

Hand Protection

Protective gloves

Skin and body protection

Long sleeved clothing



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Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls	Do not allow material to contaminate ground water system

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid, powder
pH	No information available.
Boiling Point/Range	2230°C / 4046°F
Melting Point/Range	1610°C / 2930°F
Flash Point	No information available.
Autoignition Temperature	No information available.
Water Solubility	Insoluble
Molecular Formula	O2 Si
Molecular Weight	60.08

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing..

Conditions to Avoid

Incompatible products, Excess heat, Avoid dust formation.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
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SECTION 11. TOXICOLOGICAL INFORMATION

Quartz	500 mg/kg (Rat)		
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Chronic Toxicity

Carcinogenicity Component

There are no known carcinogenic chemicals in this product

Quartz

IARC	UK
Group 1	

Sensitization
Mutagenic Effects
Reproductive Effects
Developmental Effects
Target Organs
Endocrine Disruptor Information

No information available.
 No information available
 No information available.
 No information available.
 None known.
 None known

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

Other adverse effects

No information available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused Products

Dispose of in accordance with local regulations

Contaminated Packaging

Empty containers should be taken to local recyclers for disposal

SECTION 14. TRANSPORT INFORMATION

IMDG/IMO

Not regulated

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SECTION 14. TRANSPORT INFORMATION
ADR Not regulated

IATA Not regulated

SECTION 15. REGULATORY INFORMATION
Safety, health and environmental regulations/legislation specific for the substance or mixture
International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Quartz	238-878-4	-		X	X	-	X	X	X	X	X

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment
SECTION 16. OTHER INFORMATION
Full text of R-phrases referred to under sections 2 and 3

R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation

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Revision Summary
Reason for revision Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet