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15-Mar-2013

**Revision Date**  
15-Mar-2013

**Revision Number**  
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

**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 <sup>3</sup> 15 min TWA: 0.1 mg/m <sup>3</sup> 8 hr	TWA / VME: 0.1 mg/m <sup>3</sup> (8 heures). restrictive limit	TWA: 0.1 mg/m <sup>3</sup> 8 uren	TWA / VLA-ED: 0.1 mg/m <sup>3</sup> (8 horas)

#### Component Quartz

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

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**Component**  
Quartz

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

**Component**  
Quartz

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

**Component**  
Quartz

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

**Component**  
Quartz

Latvia	Lithuania	Luxembourg	Malta	Romania
	TWA: 0.1 mg/m <sup>3</sup> respirable fraction			TWA: 0.1 mg/m <sup>3</sup> 8 ore

**Component**  
Quartz

Russia	Slovak Republic	Slovenia	Sweden	Turkey
MAC: 1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> 8 hodinách STEL: 0.5 mg/m <sup>3</sup> 15 minútach	TWA: 0.15 mg/m <sup>3</sup> 8 urah respirable fraction	LLV: 0.1 mg/m <sup>3</sup> 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 (CO<sub>2</sub>).

**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

No information available.

#### Mutagenic Effects

No information available

#### Reproductive Effects

No information available.

#### Developmental Effects

No information available.

#### Target Organs

None known.

#### Endocrine Disruptor Information

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