

(Monday - Friday: 7:30 a.m. - 4:00 p.m. CST)

Emergency Contact: INFOTRAC 800-535-5053 [U.S.A.]

Name: (R,R)-Whelk-O1 10/100 KROMASIL FEC

Code: 1-786346-200, 1-786346-500

.....SAFETY DATA SHEET......

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

1.1 Product Identifier

Name (R,R)-Whelk-O1 16/100 KROMASIL FEC

Code 1-786346-200, 1-786346-500

1.2 Use of Substance/Mixture

Use Analytical and Preparative Chromatography

1.3 Details of Manufacturer/Supplier

Company Regis Technologies, Inc. 8210 N. Austin Avenue

Morton Grove, IL 60053

847-967-6000; 800-323-8144 (toll free)

Email: cservice@registech.com

www.registech.com

1.4 Emergency Telephone

INFOTRAC 800-535-5053 [U.S.A.]

SECTION 2 ...... HAZARDS IDENTIFICATION ......

2.1 Classification of the Substance or Mixture

**GHS** Classification

Acute toxicity

Category 4
H315
Serious Eye Damage / Irritation

Category 2
H320
STOT-Single Exposure, respiratory irritation

Category 3
H335

**GHS Label Elements** 

Pictograms or hazard symbols



Signal Word Warning

Hazard Statement

H315 – Harmful if inhaled. H320 – Causes eye irritation.

H335 – May cause respiratory irritation.

**Precautionary Statements** 

[Prevention] P261 – Avoid breathing dusts.

P264 – Wash thoroughly after handling. P271 – Use in a well-ventilated area.

 ${\tt P280-Wear\ protective\ gloves/eye\ protection/face\ protection}.$ 

[Response] P304+P341 – IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 - Get medical advice/attention if you feel unwell.

[Storage] P402+P403+P404 - Store in a closed container, in a dry, well-ventilated place.

[Disposal] P501 – Dispose of contents/container in accordance with all applicable governmental and environmental

regulations.

Abbreviations: NA—not applicable; NE—not established; U—unknown/No data available; NL—not listed; N—no; Y—yes.



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#### SECTION 3 ...... COMPOSITION / INFORMATION ON INGREDIENTS ......

Name Silica Gel

Synonyms Silica dioxide, amorphous

Hazardous components

Component		Classification	Concentration
Silica dioxide, amorphous			
CAS No.	7631-86-9		
EC No.	231-545-4		98-100 %
Formula	SiO <sub>2</sub> *		
Molecular Mass	60.08		

For full test of the H-Statements mentioned in this Section, see Section 16.

\*As a silica gel.

### SECTION 4 ...... FIRST AID MEASURES ......

4.1 Description of first aid measures

Eye contact: Rinse eyes with plenty of water for at least 15 minutes; lift eyelids occasionally. If irritation persists,

consult physician.

Skin contact: Immediately remove contaminated clothing and shoes, then wash skin with soap and plenty of water. If

irritation persists, consult physician.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and

keep person warm and at rest. Consult physician.

Ingestion: Wash out mouth with water provided person is conscious. Consult physician if feel unwell.

Physician note: Symptomatic and supportive care. There is no specific antidote.

4.2 Most important symptoms and effects, both acute and delayed.

Redness of eyes or skin, dermatitis, lacrimation (tearing), or cough.

4.3 Indication of immediate medical attention and special treatment needed.

No information available.

### SECTION 5 ...... FIRE-FIGHTING MEASURES ......

5.1 Suitable Extinguishing Media

Material is non-flammable and non-oxidizing. Use extinguishing media which are appropriate to the environment. Water spray, dry chemical, carbon dioxide or foam.

No extinguishing media restrictions.

5.2 Specific hazards arising from the chemical.

Non-flammable. Non-explosive

Water spray may be used to cool fire-exposed containers, as appropriate to surrounding fire conditions.

Combustions products: None identified.

5.3 Advice for fire-fighters

Wear personal protective equipment, as appropriate for surrounding fire. Wear self-contained breathing apparatus (SCBA) if necessary.

## SECTION 6 ...... ACCIDENTAL RELEASE MEASURES......

6.1 Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel - Do not breath dusts. Protect eyes from dusty conditions. Evacuate unnecessary personnel from area, observe emergency procedures, consult an expert.

For emergency responders – Protective equipment for dust conditions. See Section 8.3.

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6.2 Environmental precautions

Prevent material from entering drains.

6.3 Methods of clean up

Evacuate unnecessary people from area. Isolate spilled material.

Ventilate area. Avoid creating dust.

Sweep up, seal in appropriate hazardous waste container, and hold for proper waste disposal. Keep out of water supplies and sewers. Wash spill site after material pickup is complete.

SECTION 7 ...... HANDLING AND STORAGE......

7.1 Safe Handling Precautions

Wear suitable protective equipment to prevent contact with skin, eyes, or inhalation of dusts.

Use only in a well ventilated area equipped with local mechanical exhaust.

May be irritating to eyes. May be irritating to mucous membranes, if mists are inhaled. May be harmful if ingested. Wash after handling.

7.2 Storage Conditions

Store tightly closed in a cool, dry, and well ventilated place. Hygroscopic. Store away from incompatible materials (See

SECTION 8 ...... EXPOSURE CONTROLS / PERSONAL PROTECTION.....

8.1 Control parameters

Exposure limits: Silica-Amorphous, precipitated (112926-00-8) -

OSHA – PEL 20 mppcf\* [2 mg/m<sup>3</sup>], 80 mg/m3/%SiO<sub>2</sub>+2 8H TWA

\*mppcf = million particles of amorphous silica per cubic foot of air; OSHA-adopted conversion factor: 1 mppcf = 0.1 mg/m3 respirable dust

Environmental Do not empty into drains.

8.2 Appropriate engineering controls

Safety shower and eye wash

Local exhaust and mechanical ventilation required. Hood recommended. Fume scrubber.

8.3 Personal protection

Eye/Face Chemical safety eyewear or goggles

Hand Compatible chemical-resistant gloves: Rubber (e.g., natural rubber, neoprene, nitrile, or equivalent)
Respiratory NIOSH/MSHA or European Standard EN 149 approved respirator for dust if exposure limits are exceeded

or irritation or other symptoms are experienced.

Dermal (not hand) Protective Clothing (e.g., lab coat).

Hygiene Avoid inhalation, ingestion; contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Wash thoroughly after handling. Wash contaminated clothing before reuse. Discard contaminated

footwear.

SECTION 9 ...... PHYSICAL AND CHEMICAL PROPERTIES .....

9.1 Information on physical and chemical data

Form solid

Appearance clear to white powder

Odor odorless

Odor threshold No data available pH 5.5-7.5 (10g/L) at (20°C)

Melting/freezing point 2230°C (4046°F)

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Initial boiling point and range: No data available

Flammability (liquid, solid) Not flammable. Not explosive.

Flash Point

Not applicable

Flammable limits (%,v/v)

Not applicable

LEL (lower explosive limit)

UEL (upper explosive limit)

Not applicable

No data available

No data available

Autoignition temperature
Decomposition temperature
OSHA Flammability Class
Evaporation Rate (BuAc = 1.0)
Vapor pressure (mmHg)
Vapor density (air=1):

No data available
No data available
No data available
No data available

Relative density (g/cm<sup>3</sup>) 2.10 (approx. 1.4-1.7 mg/mL)

Bulk density No data available Water Solubility Insoluble; hygroscopic

Water reactive Not reactive

Solubility (other) Hydrofluoric acid will dissolve silica gel.

Partition coefficient: N-octanol/water No data available Viscosity No data available

# SECTION 10 ...... STABILITY AND REACTIVITY .....

10.1 Reactivity

See section 10.3 below.

10.2 Chemical Stability

Stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Exothermic reaction: Hydrogen halides, alkali metals.

10.4 Conditions to avoid

Avoid incompatibilities. Avoid generating dust.

Keep out of water supplies, sewers, and environment.

10.5 Incompatible materials

Strong oxidizers, Strong acids. Alkali metals. Hydrogen fluoride.

Moisture—hygroscopic.

10.6 Hazardous decomposition products

Combustion None.

### SECTION 11 ...... TOXICOLOGICAL INFORMATION.......

11.1 Toxicological Information

Acute toxicity

Oral No data available

Dermal Silica, amorphous: Dermal Rabbit > 5,000 mg/kg (IUCLID)

Inhalation No data available

Skin corrosion/irritation Silica, amorphous: Rabbit: Result: No Irritation. OECD Test Guideline 404.
Serious eye damage/irritation Silica, amorphous: Rabbit: Result: No Irritation. OECD Test Guideline 404.

Respiratory or skin sensitization 

No data available



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Germ cell mutagenicity Silica, amorphous: Ames test: Salmonella typhimurium; Results: negative

Silica, amorphous: Chromosomal aberration test: Chinese hamster ovary (CHO) cells;

Results: negative

Carcinogenicity

IARC Group 3: Not classifiable as carcinogenic to humans (Silica-Amorphous, precipitated)

NTP Not listed.
OSHA Not listed.

Reproductive toxicity No data available

STOT-single exposure May cause respiratory tract irritation: Symptoms: Irritation of mucous membranes:

cough, shortness of breath.

STOT-repeated exposure No data available
Aspiration hazard No data available

11.2 Further Information

Miscellaneous No data available.

SECTION 12 ...... ECOLOGICAL INFORMATION.....

12.1 Ecotoxicity

Fish Silica, amorphous: Brachydanio rerio (Fish, fresh water) LC0 10000 mg/l; 96h; OECD

203

Crustacea Silica, amorphous: Daphnia magna (water flea) EC0 >= 10,000 mg/L; 24h; OECD 202

Algae No data available
Bacteria No data available

12.2 Persistence and degradability No data available

12.3 Bioaccumulative potential

Partition coefficient (N-octanol/water): no data available

Silica, amorphous: Bioaccumulation is not expected. (Lit)

12.4 Motility in soil No data available12.5 Other adverse effects No data available

General Notes Do not empty into drains or water courses.

SECTION 13 ....... DISPOSAL CONSIDERATIONS .......

13.1 Disposal methods

U . S. EPA Waste Codes No data available

Waste Characterization RCRA Hazard Class (40CFR 261): No data available

(per U. S. regulations) Generator is responsible for proper waste characterization. NOTE: U. S. Federal

and state hazardous waste regulations may differ considerably.

Waste Disposal

That which cannot be recovered or recycled, should be disposed of in accordance with all applicable international, national, regional, state, and local laws. Do NOT dump into

any sewer, on ground, or into any body of water.

SECTION 14 ...... TRANSPORT INFORMATION .....

14.1 DOT (US)
14.2 IMDG
14.3 IATA
Not dangerous goods
Not dangerous goods
Not dangerous goods



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Name: (R,R)-Whelk-O1 10/100 KROMASIL FEC 1-786346-200. 1-786346-500 Code: .....SAFETY DATA SHEET....... SECTION 15 ...... REGULATORY INFORMATION ...... 15.1 Safety, health and Environmental regulations specific for the product in question. NFPA: H2 F0 R0 HMIS: H2 F0 R0 15.2 Chemical Inventory Lists Reviews, Standards, and Regulations ......(Chromatography Packing Material) TSCA: ......Y EINECS: Y CERCLA [Section 103 (40 CFR 302.4)]:......NL RQ (lbs) ......NA RCRA Waste Code.....NA OSHA Process Safety [29 CFR 1910.119]: ......NL States.....NL on CA, PA, ......MN, MA, FL, NJ CA No Significant Risk Level ......NL Clean Air Act [Section 112r (40 CFR 68)]:.....NL TQ (lbs)......NA Contains Ozone Depleters (Class I or Class II) ......NL Clean Air Act [Section 103 (40 CFR 302.4)]: ......NL SARA Title III Notification [40 CFR 302.4]: Section 302/304 (EHS) Ingredient [40 CFR 355.3]......NL TPQ (lbs......NA RQ (lbs) ......NA Section 313 Ingredient [40 CFR 372.65] ......NL SECTION 16 ......OTHER INFORMATION...... 16.1 Full test of H-Statements referred to under Section 2 and 3. Eye Irr. Eye Irritation H315 Causes skin irritation H320 Causes eye irritation May cause respiratory irritation H335

The above information is believed to be correct to the best of our present state knowledge, but does not purport to be all-inclusive and shall be used only as a guide. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

Prepared by: Regis Technologies

Skin Irr. STOT-SE Skin Irritation

STOT-Single Exposure

This is the last page of this MSDS.

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