

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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Levasil FO830, FO1430, FO1430 T

Revision Revision date 2017-01-19

SECTION 1: Identification of	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	Levasil FO830, FO1430, FO1430 T
Product code	Levasil FO830, FO1430, FO1430T 011917 R092
1.2. Relevant identified uses of the	ne substance or mixture and uses advised against
Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites;
Description	Foundry material.
1.3. Details of the supplier of the	safety data sheet
Company	Ransom & Randolph
Address	3535 Briarfield Boulevard,
	Maumee, OH 43537 USA
Web	www.ransom-randolph.com
Telephone	+1 (419) 865-9497
Fax	+1 (419) 865-9997
Email	RR.SDS@dentsply.com
Email address of the	RR.SDS@dentsply.com
competent person	
1.4. Emergency telephone numb	er
Emergency telephone number	USA +1 419 865 9497
Company	Ransom & Randolph Co.
	07:30 to 16:30 (Eastern Std. / GMT minus 5)
SECTION 2: Hazards identific	cation

2.1. Classification of the substance or mixture

2.1. Oldoniodadir of the outstands of mixture			
Main hazards	No Significant Hazard		
2.2. Label elements			
	This substance / mixture has been classified in accordance with the US Federal OSHA Hazard Communication Standard 29CFR 1910.1200. Substance concentration band-ranges are presented, and minor ingredient compostion maybe withheld, to protect trade secrets.		
Precautionary Statement: Prevention	P262 - Do not get in eyes, on skin, or on clothing. Wear suitable gloves and eye/face protection.		
Risk phrases	No Significant Hazard		
2.3. Other hazards			
Other hazards	Portions of the amorphous silica may be converted to crystalline silica (cristobalite) when subject		

to higher temperatures (1700° F / 927° C), such as when used in a mold for ferrous and other high temperature alloy castings. The exposure to crystalline silica is highest at the mold knockout stage of the casting process.

Avoid breathing dust/fume/gas/mist/vapours/spray.



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2.3. Other hazards		
	Exposure to respirable crystalline silica may cause lung disease and cancer.	
Further information		
	Not applicable. PBT and vPvB assessment.	
SECTION 3: Composition/information on ingredients		
3.2. Mixtures		

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
silica (amorphous)		7631-86-9	231-545-4		20 - 30%	Ó	

SECTION 4: First aid measures

4.1. Description of first aid measures

4.1. Description of illist aid measures		
Inhalation	Move the exposed person to fresh air.	
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.	
Skin contact	Wash with soap and water.	
Ingestion	Drink 1 to 2 glasses of water. DO NOT INDUCE VOMITING.	
4.2. Most important symptoms and effects, both acute and delayed		
Inhalation	May cause irritation to respiratory system.	
Eye contact	May cause irritation to eyes.	
Skin contact	May cause irritation to skin.	
Ingestion	May cause irritation to mucous membranes.	
4.3. Indication of any immediate medical attention and special treatment needed		
Inhalation	Seek medical attention if irritation or symptoms persist.	

Inhalation	Seek medical attention if irritation or symptoms persist.	
Eye contact	Seek medical attention if irritation or symptoms persist.	
Skin contact	Seek medical attention if irritation or symptoms persist.	
Ingestion	Seek medical attention if irritation or symptoms persist.	
	•	

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

Self-contained breathing apparatus. Wear suitable protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment.

6.2. Environmental precautions

Do not allow product to enter drains.

6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material. Transfer to suitable, labelled container.

6.4. Reference to other sections



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6.4. Reference to other sec

See section [2, 8 & 13] for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Do NOT allow to freeze. Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

7.3. Specific end use(s)

Foundry material.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

exposure limits - Silica, vitreous (fused, amorphous) 80 mg/m3 / (% Silica), TWA PEL (respirable fraction).

8.1.1. Exposure Limit Values

Levasil FO830, FO1430, FO1430 T (Matrixsol(TM) 30 colloidal silica)

WEL 8-hr limit ppm:

WEL 8-hr limit mg/m3: 2.1

WEL 15 min limit mg/m3:

WEL 15 min limit ppm: WEL 8-hr limit mg/m3 total inhalable dust:

WEL 15 min limit mg/m3 total inhalable dust: WEL 15 min limit mg/m3 total -

WEL 8-hr limit mg/m3 total respirable dust:

respirable dust:

8.2. Exposure controls





8.2.1. Appropriate engineering

controls

Ensure adequate ventilation of the working area.

8.2.2. Individual protection

measures

Eye / face protection

Respiratory protection

Skin protection -Handprotection

In case of splashing, wear:. Approved safety goggles.

Wear suitable gloves.

Apron (Plastic or rubber).

In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance Liquid Colour Clear Odour Slight 10.2 pН Not applicable. Melting point Freezing Point ≈ 0 °C Initial boiling point ≈ 100 °C Evaporation rate No data available Flammability (solid, gas) Not applicable. Vapour pressure No data available Vapour density No data available Relative density 1.2 (H2O = 1 @ 20 °C) **Fat Solubility** Not applicable. Partition coefficient No data available Autoignition temperature Not applicable. Viscosity No data available Explosive properties Not applicable. Oxidising properties Not applicable. Solubility Miscible in water

9.2. Other information

Conductivity
Surface tension
Gas group
Benzene Content
Lead content
VOC (Volatile organic compounds)
No data available
No data available
No data available
Not applicable.
Not applicable.
Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not applicable.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No Significant Hazard.

10.4. Conditions to avoid

Direct sunlight. Do NOT allow to freeze.

10.5. Incompatible materials

Avoid contact with:. Sodium chloride.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.		
Skin corrosion/irritation	May cause irritation to skin.		
Serious eye damage/irritation	May cause irritation to eyes.		

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11.1. Information on toxicologic	al effects		
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.		
Germ cell mutagenicity	Based on available data, the classification criteria are not met.		
Carcinogenicity	Based on available data, the classification criteria are not met.		
Reproductive toxicity	Based on available data, the classification criteria are not met.		
STOT-single exposure	Based on available data, the classification criteria are not met.		
STOT-repeated exposure	Based on available data, the classification criteria are not met.		
Aspiration hazard	Based on available data, the classification criteria are not met.		
Repeated or prolonged exposure	May cause irritation to skin.		
1.1.4. Toxicological Informatio	n		
.evasil FO830, FO1430, FO1430 T	Oral Rat LD50: >15 g/kg		
SECTION 12: Ecological inf	ormation		
2.1. Toxicity			
evasil FO830, FO1430,	Daphnia EC50/48h: 7600.000 mg/l Green Algae EC50/48h: 440		
O1430 T	Brachydanio Rerio LC50/96h: >5000		
	Biacilydailio Reilo EC30/9011. >30000		
2.2. Persistence and degradat	pility		
	No data is available on this product.		
2.3. Bioaccumulative potential			
	Does not bioaccumulate.		
Partition coefficient	Boos not bloadcumulate.		
artition coefficient			
	Levasil FO830, FO1430, No data available FO1430 T		
	1 01460 1		
2.4. Mobility in soil			
	Not determined.		
2.5. Results of PBT and vPvB	assessment		
	Not applicable.		
2.6. Other adverse effects	• • • • • • • • • • • • • • • • • • • •		
	Not applicable.		
SECTION 13: Disposal cons	siderations		
3.1. Waste treatment methods			
	Dispose of in compliance with all. local and national regulations.		
Disposal methods			
	Contact a licensed waste disposal company.		
Disposal of packaging	1		
visposai oi packaying	I B NOT		
	Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.		
SECTION 14: Transport info	ormation		
4.1. UN number			
	The product is not classified as dangerous for carriage.		
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14.2. UN proper shipping name		
	The product is not classified as dangerous for carriage.	
14.3. Transport hazard class(es)		
	The product is not classified as dangerous for carriage.	
14.4. Packing group		
	The product is not classified as dangerous for carriage.	
14.5. Environmental hazards		
	The product is not classified as dangerous for carriage.	
14.6. Special precautions for user		
	The product is not classified as dangerous for carriage.	
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		
	The product is not classified as dangerous for carriage.	
Further information		
	The product is not classified as dangerous for carriage.	
OEOTION 45. Demulator director		

SECTION 15: Regulatory information

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

Regulations

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: Levasil FO830, FO1430 & FO1430 T are not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:

Hazard Category For Section 311/312: None

Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

INTERNATIONAL REGULATIONS:

Canadian WHMIS Classification: Not a controlled product.

Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL).

15.2. Chemical safety assessment

No data is available on this product.

SECTION 16: Other information

Other information

IARC and SCOEL publications

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.)



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Other information In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore preventing the onset of silicosis will also reduce the cancer risk..." So there is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. Worker protection against silicosis should be assured by respecting the existing regulatory occupational exposure limits and implementing additional risk management measures where required. **Training** Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations. Revision This document differs from the previous version in the following areas:. 2 - 2.2. Label elements. **Further information** The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.