

Product name: Fluorocel 830

SAFETY DATA SHEET

Classified in accordance with Health Canada Hazardous Products Regulations
(SOR/2015-17)

1. Identification

Product identifier: Fluorocel 830

Other means of identification

None.

Recommended use of the chemical and restrictions on use

Recommended use: For industrial use

Restrictions on use: Not determined.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Canada Inc.
3380 South Service Road
L7N 3J5 Burlington ON
Canada

Telephone : +1 905 336 3423

Fax : +1 905 332 5632

E-mail : product-regulatory-services@evonik.com

Emergency telephone number:

24 Hour Emergency : +1 800 424 9300 (CHEMTREC - US & CANADA)
Telephone : 800 681 9531 (CHEMTREC MEXICO)
+1 703 527 3887 (CHEMTREC WORLD)
+1 613 996 6666 (CANUTEC – For Transportation Emergencies Only)
+1 973 929 8060 (Product Regulatory Services)

2. Hazard identification

According to Hazardous Products Regulations

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: This product is not considered to be a hazardous substance or mixture when classified in accordance with the Hazardous Products Regulations.

Precautionary Statements Not applicable

Hazard(s) not otherwise classified None.

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(HNOC):

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS-No.	Content in percent (%)*
Aluminium oxide		1344-28-1	80 - 100%
Alkalinizing Agent	Trade Secret	Trade Secret	1 - 5%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Trade secret information: A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General information:	No specific first aid measures noted.
Inhalation:	Move to fresh air. In case product dust is released: Possible discomfort: cough, sneezing
Skin Contact:	Wash skin thoroughly with soap and water. Get medical attention if symptoms occur.
Eye contact:	Rinse thoroughly with plenty of water keeping eyelid open. Remove contact lenses if this can be easily done. Get medical attention if any discomfort continues.
Ingestion:	Clean mouth with water and drink afterwards plenty of water. Get medical attention if any discomfort continues.
Personal Protection for First-aid Responders:	Pay attention to self-protection.

Most important symptoms and effects, both acute and delayed

Symptoms:	No data available.
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment:	No data available.
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5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water, water vapour, extinguishing powder, extinguishing foam Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture: Hazard-determining flue gases might develop in case of fire: Carbon Monoxide. Carbon Dioxide.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Water used to extinguish fire should not enter drainage systems, soil or stretches of water.

Special protective equipment for fire-fighters: In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid contact with eyes, skin, and clothing.

Accidental release measures: No data available.

Methods and material for containment and cleaning up: Use mechanical handling equipment. Avoid dust formation. Clean contaminated surface thoroughly. Send in suitable containers for recovery or disposal. Disposal according to local authority regulations.

Environmental Precautions: Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

7. Handling and storage

Handling

Technical measures: No data available.

Local/Total ventilation: Provide adequate ventilation.

Safe handling advice: Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment. Avoid inhalation of dust and contact with skin and eyes. Handle and open container with care.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Store in accordance with local/regional/national/international regulations. Normal measures for preventive fire protection. Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Take precautionary measures against static discharges.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

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Control Parameters

Occupational Exposure Limits

Components	Type	Form of exposure	Exposure Limit Values		Source
Aluminium oxide	TWA	Respirable fraction.		1 mg/m ³	CAD ON OEL (06 2015)
	15 MIN ACL			20 mg/m ³	CAD SK OEL (05 2009)
	TWA	Respirable		1.0 mg/m ³	CAD BC OEL (06 2022)
	TWA	Total dust.		10 mg/m ³	OEL (QUE) (04 2022)
	TWA	Respirable dust.		5 mg/m ³	OEL (QUE) (04 2022)
	8 HR ACL			10 mg/m ³	CAD SK OEL (04 2021)
	TWA			10 mg/m ³	CAD AB OEL (12 2024)
	TWA	Respirable fraction.		1 mg/m ³	CAD MB OEL (01 2025)
	TWA	Respirable fraction.		3 mg/m ³	CAD ON OEL (01 2020)
	TWA	Inhalable fraction.		10 mg/m ³	CAD ON OEL (01 2020)
	TWA	Respirable fraction.		1 mg/m ³	ACGIH (01 2025)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection:

close-fitting protective goggles (e.g. closed goggles)

Hand Protection:

Additional Information: No protective glove type has been specified for use with this product. Additional Information: Selection of protective gloves to meet the requirements of specific workplaces., The suitability for a specific workplace should be discussed with the producers of the protective gloves., Be aware that in daily use the durability of a protective glove can be notably shorter than the break through time measured, due to the numerous outside influences (e.g. temperature)., Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Other:

Wear suitable protective clothing. If necessary, full body protection suit (coverall). Select materials and equipment for physical protection depending on the concentration and volume of hazardous substances and the workplace involved.

Respiratory Protection:

In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter or wear a self contained respiratory apparatus Ambient air dependent respiratory protective devices must be tested for their suitability prior to use (e.g. contact manufacturer, carry out penetration test). Note time limit for wearing respiratory protective equipment.

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Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid dust formation. Avoid contact with eyes, skin, and clothing. Immediately remove contaminated clothing. Wash contact areas after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using the product. Implement skin protection measures according to skin protection schedule

9. Physical and chemical properties**Information on basic physical and chemical properties****Appearance****Physical state:** solid**Form:** solid**Color:** White**Odor:** Characteristic**Odor Threshold:** No data available.**Melting Point:** 3,722 °F/ 2,050 °C**Boiling Point:** No data available.**Flammability:** No data available.**Upper/lower limit on flammability or explosive limits****Explosive limit - upper:** No data available.**Explosive limit - lower:** No data available.**Flash Point:** Not applicable (solid)**Auto-ignition temperature:** No data available.**Decomposition Temperature:** No data available.**pH:** Not applicable, substance/mixture is non-soluble (in water)**Viscosity****Dynamic viscosity:** No data available.**Kinematic viscosity:** No data available.**Flow Time:** No data available.**Solubility(ies)****Solubility in Water:** Insoluble**Solubility (other):** No data available.**Partition coefficient (n-octanol/water):** No data available.**Vapor pressure:** No data available.**Relative density:** No data available.**Density:** 3.7025 g/cm³**Bulk density:** No data available.**Vapor density (air=1):** No data available.**Particle characteristics:** No data available.**Other information**

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Oxidizing properties:	The substance or mixture is not classified as oxidizing.
Self-ignition:	Based on available data, the classification criteria are not met.
Formation of Flammable Gases:	Based on available data, the classification criteria are not met.
Peroxides:	The substance or mixture is not classified as organic peroxide.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	No further information available
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	Information on effects are given below.
Skin Contact:	Information on effects are given below.
Eye contact:	Information on effects are given below.
Ingestion:	Information on effects are given below.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Acute toxicity (list all possible routes of exposure)

Oral

Product:	Not classified for acute toxicity based on available data.
Components:	
Aluminium oxide	LD 50, Rat, Female, Male, > 10,000 mg/kg, OECD 401
Alkalinizing Agent	LD 50, Rat, Female, Male, 2,800 mg/kg

Dermal

Product:	Not classified for acute toxicity based on available data.
Components:	
Aluminium oxide	Not toxic after single exposure, Not classified for acute toxicity based on available data.
Alkalinizing Agent	LD 50, Rabbit, > 2,000 mg/kg, US-EPA-method, No deaths observed. Not toxic after single exposure, No classification

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Inhalation

Product:	Not classified for acute toxicity based on available data.
Components:	
Aluminium oxide	Dust and mist, Not toxic after single exposure, No classification Vapour, Not toxic after single exposure, Not applicable
Alkalinizing Agent	Dust and mist, Not toxic after single exposure, No data available. Vapour, Not toxic after single exposure, Not applicable

Repeated dose toxicity

Components:	
Aluminium oxide	NOAEL Rat, Female, Male, Oral, 90 d, daily, 1,000 mg/kg, LOAEL Rat, Female, Male, Oral, 90 d, daily, 1,000 mg/kg, (analogy) NOAEC, Rat, Inhalation - dust and mist, 90 d, 5 days/weeks, 6 hours/day, 70 mg/m ³ , Target Organ(s): lungs / sediments in the lungs, lungs / no evidence of fibrosis, no pathological changes

Skin Corrosion/Irritation

Components:	
Aluminium oxide	Not irritating, OECD 404, Rabbit
Alkalinizing Agent	Not irritating, OECD 404, Rabbit

Serious Eye Damage/Eye Irritation

Components:	
Aluminium oxide	Not irritating, OECD 405, Rabbit
Alkalinizing Agent	Irritating., US-EPA-method, Rabbit

Respiratory or Skin Sensitization

Components:	
Aluminium oxide	Draize-test, Guinea Pig, Not a skin sensitizer. Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer.
Alkalinizing Agent	Not a skin sensitizer.

Carcinogenicity

Components:	
Aluminium oxide	No evidence that cancer may be caused.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended

No carcinogens present or none present in regulated quantities

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended

No carcinogens present or none present in regulated quantities

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Components:

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Aluminium oxide	gene mutation test, OECD 471: , negative
	gene mutation test, OECD 476: , negative, (analogy)

In vivo

Components:

Aluminium oxide	Micronucleus test, OECD 474, Oral, Rat, Male, negative, (analogy)
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Reproductive toxicity

Components:

Aluminium oxide	no evidence of reproductiontoxic properties
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Specific Target Organ Toxicity - Single Exposure

Components:

Aluminium oxide	no evidence for hazardous properties
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Specific Target Organ Toxicity - Repeated Exposure

Components:

Aluminium oxide	no evidence for hazardous properties
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Aspiration Hazard

Components:

Aluminium oxide	Not applicable
Alkalinizing Agent	Not applicable

Information on health hazards

Other hazards

Product:	No data available.
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12. Ecological information

Ecotoxicity:

Toxicity to Aquatic Plants

Components:

Aluminium oxide	EC 50, Algae (<i>Pseudokirchneriella subcapitata</i>), 72 h, > 100 mg/l, Literature
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Toxicity to microorganisms

Components:

Aluminium oxide	EC 10, activated sludge, 3 h, 1,000 mg/l, OECD 209, (analogy)
	EC 10, activated sludge, 3 h, > 200 mg/l, OECD 209

Acute hazards to the aquatic environment:

Fish

Components:

Aluminium oxide	LC 50, <i>Salmo trutta</i> , 96 h, > 100 mg/l, Literature
Alkalinizing Agent	LC 50, Bluegill Sunfish, 96 h, 300 mg/l

Aquatic Invertebrates

Components:

Aluminium oxide	EC 50, <i>Daphnia magna</i> , 48 h, > 100 mg/l, Literature
Alkalinizing Agent	EC 50, <i>Ceriodaphnia</i> sp., 48 h, 200 - 227 mg/l

Chronic hazards to the aquatic environment:

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Fish

No data available.

Aquatic Invertebrates

No data available.

Persistence and Degradability

Biodegradation

Components:

Aluminium oxide

The methods for determining biodegradability are not applicable to inorganic substances.

BOD/COD Ratio

No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Components:

Aluminium oxide

Not to be expected.

Alkalinizing Agent

Does not bioaccumulate.

Partition Coefficient n-octanol / water (log Kow)

Components:

Aluminium oxide

Not applicable

Mobility in soil:

Components:

Aluminium oxide

No remarkable mobility in soil is to be expected.

Results of PBT and vPvB assessment:

No data available.

Other adverse effects:

Additional ecological information

Product:

No data available.

13. Disposal considerations

General information:

Pack and label wastes like the pure substance. Do not detach label from the delivery containers prior to disposal.

Disposal methods:

Dispose of in accordance with local regulations.

Contaminated Packaging:

Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities.

14. Transport information

Domestic regulation

TDG

Not regulated as a dangerous good

International Regulations

UNRTDG

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Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. Regulatory information

Canada Federal Regulations

List of Toxic Substances (CEPA, Schedule 1)

Not Regulated

Export Control List (CEPA 1999, Schedule 3)

Not Regulated

National Pollutant Release Inventory (NPRI)

Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements

NPRI PT5 Not Regulated

Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

NPRI Not Regulated

Greenhouse Gases

Not Regulated

Canada. Substances Subject to Significant New Activity (SNAc) Reporting Requirements (CEPA section 81), as amended

Not Regulated

Controlled Drugs and Substances Act

CA CDSI	Not Regulated
CA CDSII	Not Regulated
CA CDSIII	Not Regulated
CA CDSIV	Not Regulated
CA CDSV	Not Regulated
CA CDSVII	Not Regulated
CA CDSVIII	Not Regulated

Precursor Control Regulations

Not Regulated

Inventory Status:

Canada DSL Inventory List:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory Commercial Status: Active

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16. Other information, including date of preparation or last revision
Date of first report version: 01/11/2024

Revision Date: 11/26/2025

Version #: 2.2

Abbreviations and acronyms:

ACGIH:	US. ACGIH Threshold Limit Values, as amended
CAD AB OEL:	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
CAD BC OEL:	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended
CAD MB OEL:	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
CAD ON OEL:	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
CAD SK OEL:	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
OEL (QUE):	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
ACGIH / TWA:	Time Weighted Average (TWA):
CAD AB OEL / TWA:	Time Weighted Average (TWA):
CAD BC OEL / TWA:	Time Weighted Average (TWA):
CAD MB OEL / TWA:	Time Weighted Average (TWA):
CAD ON OEL / TWA:	Time Weighted Average (TWA):
CAD SK OEL / 8 HR ACL:	8 hour average contamination limit:
CAD SK OEL / 15 MIN ACL:	15 minute average contamination limit:
OEL (QUE) / TWA:	Time Weighted Average (TWA):

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations

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Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further Information: No data available.

Revision Information: Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

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