

1.	Identification
1.1	GHS Product identifier

Product name	isofraxetin
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Product number	-
Other names	5,6-dihydroxy-7-methoxy-chromen-2-one; Isofraxetin; 5,6-Dihydroxy-7-methoxy-chromen-2-one

Other names	5,6-dihydroxy-7-methoxy-chromen-2-one; Isofraxetin; 5,6-Dihydroxy-7-methoxy-chromen-2-one
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Identified uses	Industrial and scientific research uses.
Uses advised against	no data available

Company	-
Address	-
Telephone	-
Fax	-

Emergency phone number	-
Service hours	Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours).

Monday to Friday: 0am-5pm (Standard time zone: UTC/GMT +8 hours)

2.1	Classification of the substance or mixture
	no data available

no data available

Pictogram(s)	no data available
Signal word	no data available
Hazard statement(s)	no data available
Precautionary statement(s)	
Prevention	no data available
Response	no data available
Storage	no data available
Disposal	no data available

	Size of island	Number of species	No. of individuals	Mean density	Standard deviation	95% CI	Notes
Six-month period	Small	10	178	1.78	0.50	1.30-2.26	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
	Small	10	100	1.00	0.45	0.50-1.39	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
One-year period	Small	10	178	1.78	0.50	1.30-2.26	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
	Small	10	100	1.00	0.45	0.50-1.39	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
Two-year period	Small	10	178	1.78	0.50	1.30-2.26	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
	Small	10	100	1.00	0.45	0.50-1.39	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
Three-year period	Small	10	178	1.78	0.50	1.30-2.26	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
	Small	10	100	1.00	0.45	0.50-1.39	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
Four-year period	Small	10	178	1.78	0.50	1.30-2.26	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
	Small	10	100	1.00	0.45	0.50-1.39	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
Five-year period	Small	10	178	1.78	0.50	1.30-2.26	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
	Small	10	100	1.00	0.45	0.50-1.39	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
Six-year period	Small	10	178	1.78	0.50	1.30-2.26	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
	Small	10	100	1.00	0.45	0.50-1.39	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
Seven-year period	Small	10	178	1.78	0.50	1.30-2.26	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
	Small	10	100	1.00	0.45	0.50-1.39	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
Eight-year period	Small	10	178	1.78	0.50	1.30-2.26	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
	Small	10	100	1.00	0.45	0.50-1.39	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
Nine-year period	Small	10	178	1.78	0.50	1.30-2.26	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
	Small	10	100	1.00	0.45	0.50-1.39	
	Medium	10	100	1.00	0.45	0.50-1.39	
	Large	10	100	1.00	0.45	0.50-1.39	
Ten-year period	Small	10	178	1.78	0.50	1.30-2.26	

Statement	Response
1. I would not state my name in the press.	no data available

Duration	no data available
1990-1999	1990-1999
2000-2009	2000-2009
2010-2019	2010-2019
2020-2029	2020-2029
2030-2039	2030-2039
2040-2049	2040-2049
2050-2059	2050-2059
2060-2069	2060-2069
2070-2079	2070-2079
2080-2089	2080-2089
2090-2099	2090-2099
2100-2109	2100-2109
2110-2119	2110-2119
2120-2129	2120-2129
2130-2139	2130-2139
2140-2149	2140-2149
2150-2159	2150-2159
2160-2169	2160-2169
2170-2179	2170-2179
2180-2189	2180-2189
2190-2199	2190-2199
2200-2209	2200-2209
2210-2219	2210-2219
2220-2229	2220-2229
2230-2239	2230-2239
2240-2249	2240-2249
2250-2259	2250-2259
2260-2269	2260-2269
2270-2279	2270-2279
2280-2289	2280-2289
2290-2299	2290-2299
2300-2309	2300-2309
2310-2319	2310-2319
2320-2329	2320-2329
2330-2339	2330-2339
2340-2349	2340-2349
2350-2359	2350-2359
2360-2369	2360-2369
2370-2379	2370-2379
2380-2389	2380-2389
2390-2399	2390-2399
2400-2409	2400-2409
2410-2419	2410-2419
2420-2429	2420-2429
2430-2439	2430-2439
2440-2449	2440-2449
2450-2459	2450-2459
2460-2469	2460-2469
2470-2479	2470-2479
2480-2489	2480-2489
2490-2499	2490-2499
2500-2509	2500-2509
2510-2519	2510-2519
2520-2529	2520-2529
2530-2539	2530-2539
2540-2549	2540-2549
2550-2559	2550-2559
2560-2569	2560-2569
2570-2579	2570-2579
2580-2589	2580-2589
2590-2599	2590-2599
2600-2609	2600-2609
2610-2619	2610-2619
2620-2629	2620-2629
2630-2639	2630-2639
2640-2649	2640-2649
2650-2659	2650-2659
2660-2669	2660-2669
2670-2679	2670-2679
2680-2689	2680-2689
2690-2699	2690-2699
2700-2709	2700-2709
2710-2719	2710-2719
2720-2729	2720-2729
2730-2739	2730-2739
2740-2749	2740-2749
2750-2759	2750-2759
2760-2769	2760-2769
2770-2779	2770-2779
2780-2789	2780-2789
2790-2799	2790-2799
2800-2809	2800-2809
2810-2819	2810-2819
2820-2829	2820-2829
2830-2839	2830-2839
2840-2849	2840-2849
2850-2859	2850-2859
2860-2869	2860-2869
2870-2879	2870-2879
2880-2889	2880-2889
2890-2899	2890-2899
2900-2909	2900-2909
2910-2919	2910-2919
2920-2929	2920-2929
2930-2939	2930-2939
2940-2949	2940-2949
2950-2959	2950-2959
2960-2969	2960-2969
2970-2979	2970-2979
2980-2989	2980-2989
2990-2999	2990-2999
3000-3009	3000-3009
3010-3019	3010-3019
3020-3029	3020-3029
3030-3039	3030-3039
3040-3049	3040-3049
3050-3059	3050-3059
3060-3069	3060-3069
3070-3079	3070-3079
3080-3089	3080

Dominance	no data available
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State	no. data available	no. data not available
Alabama	1	0
Alaska	1	0
Arizona	1	0
Arkansas	1	0
California	1	0
Colorado	1	0
Connecticut	1	0
Delaware	1	0
District of Columbia	1	0
Florida	1	0
Georgia	1	0
Hawaii	1	0
Idaho	1	0
Illinois	1	0
Indiana	1	0
Iowa	1	0
Kansas	1	0
Kentucky	1	0
Louisiana	1	0
Maine	1	0
Maryland	1	0
Massachusetts	1	0
Michigan	1	0
Minnesota	1	0
Mississippi	1	0
Missouri	1	0
Montana	1	0
Nebraska	1	0
Nevada	1	0
New Hampshire	1	0
New Jersey	1	0
New Mexico	1	0
New York	1	0
North Carolina	1	0
North Dakota	1	0
Ohio	1	0
Oklahoma	1	0
Oregon	1	0
Pennsylvania	1	0
Rhode Island	1	0
South Carolina	1	0
South Dakota	1	0
Tennessee	1	0
Texas	1	0
Utah	1	0
Vermont	1	0
Virginia	1	0
Washington	1	0
West Virginia	1	0
Wisconsin	1	0
Wyoming	1	0

Dimensions: 100 cm x 100 cm x 100 cm; Weight: 100 kg; Material: no data available

no data available

3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
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Chemical name	Common names and synonyms	CAS number	EC number	Concentration
isofraxetin	isofraxetin	50656-75-2	-	100%

4.1 Description of necessary first-aid measures

General advice

General advice

Medical attention is required. Consult a doctor. Show this safety data sheet (SDS) to the doctor in attendance.

Medical attention is required. Consult a doctor. Show this safety data sheet (SDS) to the doctor in attendance.

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Rinse with pure water for at least 15 minutes. Consult a doctor.

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison

Control Center immediately.

4.2 Most important symptoms/effects, acute and delayed

no data available

4.3 Indication of immediate medical attention and special treatment needed, if necessary

no data available

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

5.2 Specific hazards arising from the chemical

no data available

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. Handling and storage

7.1 Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2 Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

no data available

8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

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

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

no data available

9. Physical and chemical properties

Physical state	no data available
Colour	no data available
Odour	no data available
Melting point/ freezing point	no data available
Boiling point or initial boiling point and boiling range	no data available
Flammability	no data available
Lower and upper explosion limit / flammability limit	no data available
Flash point	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
pH	no data available
Kinematic viscosity	no data available
Solubility	no data available
Partition coefficient n-octanol/water	no data available
Vapour pressure	no data available
Density and/or relative density	no data available
Relative vapour density	no data available
Particle characteristics	no data available

10. Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

11. Toxicological information

Acute toxicity

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

12. Ecological information

12.1 Toxicity

- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Other adverse effects

no data available

13. Disposal considerations

13.1 Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14. Transport information

14.1 UN Number

ADR/RID: no data available

IMDG: no data available

IATA: no data available

14.2 UN Proper Shipping Name

ADR/RID: no data available

IMDG: no data available

IATA: no data available

14.3 Transport hazard class(es)

ADR/RID: no data available

IMDG: no data available

IATA: no data available

14.4 Packing group, if applicable

ADR/RID: no data available

IMDG: no data available

IATA: no data available

14.5 Environmental hazards

ADR/RID: No

IMDG: No

IATA: No

14.6 Special precautions for user

no data available

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

no data available

15. Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
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isofraxetin	isofraxetin	50656-75-2	-
European Inventory of Existing Commercial Chemical Substances (EINECS)			Not Listed.
EC Inventory			Not Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Not Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Not Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Not Listed.
Vietnam National Chemical Inventory			Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Not Listed.
Korea Existing Chemicals List (KECL)			Not Listed.

16. Other information

Information on revision

Creation Date July 15, 2019

Revision Date July 15, 2019

Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

References

- IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>
- HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
- IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>
- eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
- ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>
- Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>
- ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>