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Safety Data Sheet acc. to OSHA HCS

Date of issue: 12/10/2024

Revision date 12/10/2024

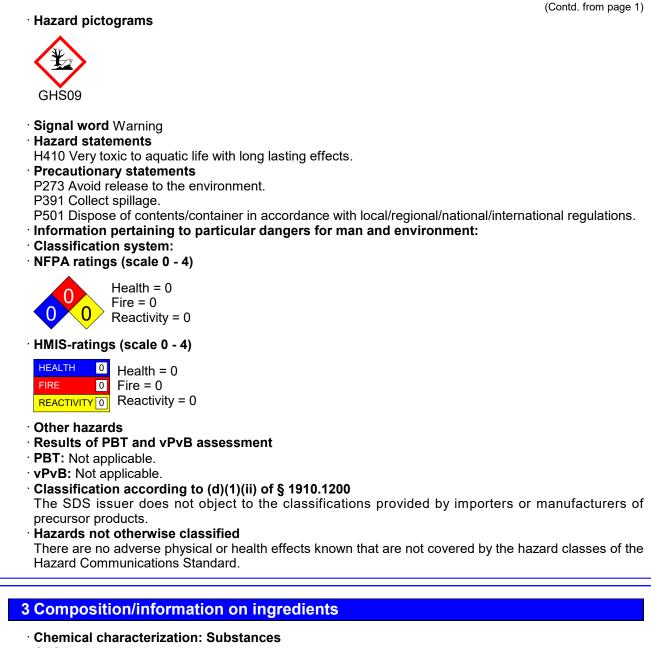
	Product identifier
. •	Trade name: N-trans-FeruloyItyramine
) (Synonym (2E)-3-(4-hydroxy-3-methoxyphenyl)-N-[2-(4-hydroxyphenyl)ethyl]-2-propenamide Alfrutamide (E)-Feruloyltyramine Moupinamide CAS Number: 66648-43-9 Other means of identification
	Article number: 27459
	EC number: 804-188-2
	Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
• (,	Details of the supplier of the safety data sheet Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
. 	Information department: Product safety department Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300
(Outside US/CANADA: 703-741-5970
2	Hazard(s) identification
• (Classification of the substance or mixture
•	GHS09 Environment
,	Aquatic Acute 1 H400 Very toxic to aquatic life.
	Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.
• (Label elements GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page

Page 1/8

Date of issue: 12/10/2024

Revision date 12/10/2024

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- · CAS No. Description
- 66648-43-9 N-trans-Feruloyltyramine
- Identification number(s)
- **EC number:** 804-188-2

4 First-aid measures

- Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.

(Contd. on page 3)

Date of issue: 12/10/2024

Revision date 12/10/2024

(Contd. from page 2)

Trade name: N-trans-FeruloyItyramine

- · After swallowing: If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up: Pick up mechanically.
- Protective Action Criteria for Chemicals
- **PAC-1:** Substance is not listed.
- **PAC-2:** Substance is not listed.
- · PAC-3: Substance is not listed.
- · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Precautions for safe handling
- No special precautions are necessary if used correctly.

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

Avoid prolonged or repeated exposure.

Keep away from sources of ignition.

Take precautionary measures against static discharge.re.

· Information about protection against explosions and fires: No special measures required.

- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

(Contd. on page 4)

115

US

Safety Data Sheet acc. to OSHA HCS

Date of issue: 12/10/2024

Revision date 12/10/2024

Trade name: N-trans-FeruloyItyramine

(Contd. from page 3)

8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Personal protective equipment:
- General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Not required.

Information on basic physical and chemical properties General Information					
Physical state	Solid				
Color:	Not determined.				
Odor:	Characteristic				
Structural Formula	C18H19NO4				
Molecular Weight	313.4 g/mol				
Storage Buffer					
Odor threshold:	Not determined.				
Formulation					
Melting point/Melting range:	Undetermined.				
Boiling point/Boiling range:	Undetermined.				
Flammability:	Product is not flammable.				
Explosion limits:					
Lower:	Not determined.				
Upper:	Not determined.				
Flash point:	Not applicable.				
Decomposition temperature:	Not determined.				
pH-value:	Not applicable.				
Viscosity:					
Kinematic:	Not applicable.				
SOLUBILITY	DMF: 30 mg/ml; DMSO: 30 mg/ml; DMSO:PBS (pl				
	7.2) (1:3): 0.33 mg/ml;Ethanol: 25 mg/ml				
Dynamic:	Not applicable.				

Date of issue: 12/10/2024

Revision date 12/10/2024

Trade name: N-trans-FeruloyItyramine

	(Contd. from page 4)
 Solubility in / Miscibility with 	
· Water:	Not determined.
 Partition coefficient (n-octanol/water): 	Not determined.
Vapor pressure:	Not applicable.
Vapor pressure:	
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not applicable.
Particle characteristics	Not determined.
· Other information	
· Appearance:	
Form:	Solid
 Important information on protection of hea 	lth
and environment, and on safety.	
Ignition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Change in condition	
· Evaporation rate	Not applicable.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: strong oxidizing agents
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- · on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:
- · Interactive effects No interactive effects between components are known.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.
- · Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

(Contd. on page 6)

Date of issue: 12/10/2024

Revision date 12/10/2024

Trade name: N-trans-Feruloyltyramine

(Contd. from page 5)

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects
- · Remark: Very toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

13 Disposal considerations

- · Waste treatment methods
- Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

· UN-Number	
· DOT, IMDG, IATA	UN3077
· UN proper shipping name	
· DOT, IATA	Environmentally hazardous substance, solid, n.o.s. trans-Feruloyltyramine)
·IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTAN SOLID, N.O.S. (N-trans-Feruloyltyramine)
· Transport hazard class(es)	
DOT	
	9 Miscellaneous dangerous substances and articles

Date of issue: 12/10/2024

Revision date 12/10/2024

Trade name: N-trans-Feruloyltyramine

	(Contd. from page
Label	9
	9 Miscellaneous dangerous substances and articles 9
Packing group DOT, IMDG, IATA	111
	Symbol (fish and tree) Symbol (fish and tree)
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
	When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.
	Warning: Miscellaneous dangerous substances ar articles
Stowage Category Stowage Code	F-A,S-F A SW23 When transported in BK3 bulk container, se
UN "Model Regulation":	7.6.2.12 and 7.7.3.9. UN 3077 ENVIRONMENTALLY HAZARDOU SUBSTANCE, SOLID, N.O.S. (N-TRANS FERULOYLTYRAMINE), 9, III

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

(Contd. on page 8)

Date of issue: 12/10/2024

Revision date 12/10/2024

Trade name: N-trans-Feruloyltyramine

- · Sara
- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of previous version 10/31/2022
- Date of preparation 12/10/2024
- Abbreviations and acronyms:
- IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL:** Recommended Exposure Limit Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 * Data compared to the previous version altered.

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(Contd. from page 7)