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1 Identification

- · Product identifier
- · Trade name: <u>Hinokiflavone</u>
- · Article number: 36338
- CAS Number: 19202-36-9
- EC number: 242-877-4
- **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



Skin Irritation 2 H315 Causes skin irritation.Eye Irritation 2A H319 Causes serious eye irritation.

- · Label elements
- · GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms



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Signal word Warning	
Hazard statements	
H315 Causes skin irritation.	
H319 Causes serious eye irritation.	
Precautionary statements	
P264 Wash thoroughly after handling.	
P280 Wear eye protection / face protection.	
P302+P352 If on skin: Wash with plenty of water.	
P321 Specific treatment (see on this label).	:4
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,	Iſ
present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/attention.	
P362+P364 Take off contaminated clothing and wash it before reuse.	
P337+P313 If eye irritation persists: Get medical advice/attention.	
Classification system:	
NFPA ratings (scale 0 - 4)	
$\begin{array}{c} & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & $	
HMIS-ratings (scale 0 - 4)	
HEALTH2FIRE0Fire = 0REACTIVITYReactivity = 0	
Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	

• **vPvB:** Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description 19202-36-9 Hinokiflavone
- · Identification number(s)
- EC number: 242-877-4

4 First-aid measures

- Description of first aid measures
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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• 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: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
- 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.
- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- PAC-2: Substance is not listed.
- · PAC-3: Substance is not listed.

7 Handling and storage

- · Handling:
- · 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: Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace: Not required.

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· Additional information: The list	(Contd. from page 3) sts that were valid during the creation were used as basis.
· Exposure controls	
· Personal protective equipmer	ıt:
General protective and hygier	nic measures:
Keep away from foodstuffs, bev	
Immediately remove all soiled a	•
Wash hands before breaks and	
Avoid contact with the eyes and	
 Breathing equipment: Not req Protection of hands: 	
Protective gloves	
Due to missing tests no recor	permeable and resistant to the product/ the substance/ the preparation. mmendation to the glove material can be given for the product/ the
preparation/ the chemical mixtu Selection of the glove materia degradation	re. I on consideration of the penetration times, rates of diffusion and the
 Material of gloves 	
	oves does not only depend on the material, but also on further marks of
quality and varies from manufac	
Penetration time of glove mat	as to be found out by the manufacturer of the protective gloves and has
to be observed.	as to be found out by the manufacturer of the protective gloves and has
· Eye protection:	
Tightly sealed goggle	S
9 Physical and chemical p	roperties
 Information on basic physical General Information 	and chemical properties
· Appearance:	
Form:	Solid
Color:	Not determined.
· Odor:	Characteristic
· Structural Formula	C30H18O10
· Molecular Weight	538.5 g/mol
· Odor threshold:	Not determined.

· Odor threshold:	Not determined.	
· pH-value:	Not applicable.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. Undetermined.	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Product is not flammable.	
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· Decomposition temperature:	Not determined.	
· Ignition temperature:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not applicable.	
· Density:	Not determined.	
Relative density	Not determined.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Not determined.	
· Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
SOLUBILITY	Acetone: soluble; Chloroform: soluble; Dichloromethane: soluble; DMSO: soluble;Ethyl Acetate: soluble	
· Other information	No further relevant information available.	

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:** No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.

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· OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

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12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

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	not regulated	
UN proper shipping name		
DOT, IMDG, IATA	not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA		
Class	not regulated	
Packing group		
DOT, IMDG, IATA	not regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	ll of	
MARPOL73/78 and the IBC Code	Not applicable.	

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· UN "Model Regulation":

not regulated

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · 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.
- · Proposition 65
- · 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 preparation / last revision 03/21/2023
- 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** Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A