



Revision date 03/28/2020 Printing date 03/28/2020

### 1 Identification

- · Product identifier
- · Trade name: 2-[3-(2,4-difluorophenyl)-4,5-dihydro-5-isoxazolyl]-1-(4-morpholinyl)-ethanone
- · Synonym CPSI-1306
- · Article number: 29905
- · CAS Number: 1309793-47-2
- · Application of the substance / the mixture For research use only not for human or veterinary 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 Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

- · Label elements
- · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard statements

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray

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#### Trade name: 2-[3-(2,4-difluorophenyl)-4,5-dihydro-5-isoxazolyl]-1-(4-morpholinyl)-ethanone

(Contd. from page 1)

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves / eye protection / face protection.

*If on skin: Wash with plenty of water.* 

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2Fire = 0

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



2 Health = 2 Fire = 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

1309793-47-2 2-[3-(2,4-difluorophenyl)-4,5-dihydro-5-isoxazolyl]-1-(4-morpholinyl)-ethanone

### 4 First-aid measures

- Description of first aid measures
- · After inhalation:

Supply fresh air and to be sure call for a doctor.

*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.

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(Contd. from page 2)

- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. 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: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up: Ensure adequate ventilation.
- · 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

*Np special precautions are necessary if used correctly.* 

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

Avoid prolonged or repeated exposure.

- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

Store in accordance with information listed on the product insert.

- · Storage:
- 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.

US

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(Contd. from page 3)

### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

At this time, the other constituents have no known exposure limits.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

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:



Tightly sealed goggles

### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Crystalline Color: Not determined.

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Trade name: 2-[3-(2,4-difluorophenyl)-4,5-dihydro-5-isoxazolyl]-1-(4-morpholinyl)-ethanone

| Structural Formula Molecular Weight 310.3 Odor threshold: Not determined.  PH-value: Not applicable.  Change in condition Melting point/Melting range: Boiling point/Boiling range: Undetermined.  Flash point: Not applicable.  Flammability (solid, gaseous): Product is not flammable.  Decomposition temperature: Not determined.  Auto igniting: Not determined.  Explosion limits: Lower: Not determined.  Vapor pressure: Not determined.  Vapor pressure: Not determined.  Vapor density Not determined.  Vapor density Not determined.  Vapor density Not applicable.  Solubility in / Miscibility with Water: Not determined.  Viscosity: Dynamic: Kinematic: Not applicable. Not applicable. Kinematic: Not applicable. Not applicable. Kinematic: Not applicable.   |                                      | (Contd. from page   |
|---|--------------------------------------|---|
| Molecular Weight Odor threshold:       310.3 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.         Decomposition temperature:       Not determined.         Auto igniting:       Not determined.         Explosion limits:       Not determined.         Lower:       Not determined.         Upper:       Not determined.         Vapor pressure:       Not applicable.         Density:       Not determined.         Relative density       Not applicable.         Vapor density       Not applicable.         Evaporation rate       Not applicable.         Solubility in / Miscibility with Water:       Not determined.         Water:       Not determined.         Partition coefficient (n-octanol/water):       Not determined.         Viscosity:       Not applicable.         Dynamic:       Not applicable.         Kinematic:       Not applicable.         Sol UBILITY       Not applicable.         Not applicable.       Not applicable.         Not applicable.       No   | · Odor:                              | Characteristic  |
| Odor threshold:         Not determined.           pH-value:         Not applicable.           Change in condition Melting point/Melting range:         Undetermined.           Boiling point/Boiling range:         Undetermined.           Flash point:         Not applicable.           Flammability (solid, gaseous):         Product is not flammable.           Decomposition temperature:         Not determined.           Auto igniting:         Not determined.           Danger of explosion:         Product does not present an explosion hazard.           Explosion limits:         Not determined.           Upper:         Not determined.           Vapor pressure:         Not applicable.           Density:         Not applicable.           Relative density         Not applicable.           Evaporation rate         Not applicable.           Solubility in / Miscibility with Water:         Not determined.           Partition coefficient (n-octanol/water):         Not determined.           Viscosity:         Not applicable.           Dynamic:         Not applicable.           Kinematic:         Not applicable.           Sol UBILITY         Not applicable.           Not applicable.         Not applicable.           Not applicable.         N  | · Structural Formula                 |   |
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| Auto igniting: Not determined.  Danger of explosion: Product does not present an explosion hazard.  Explosion limits: Lower: Not determined. Upper: Not applicable.  Density: Not determined. Relative density Not applicable. Evaporation rate Not applicable.  Solubility in / Miscibility with Water: Not determined.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Not applicable. Kinematic: Not applicable. Kinematic: Not applicable. Kinematic: Not applicable. SOLUBILITY -0.2 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2); ~30 mg/ml DMSO & DMF;   | · Flammability (solid, gaseous):     | Product is not flammable.   |
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| Water: Not determined.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Not applicable. Kinematic: Not applicable. SOLUBILITY ~0.2 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2); ~30 mg/ml DMSO & DMF;  | · Evaporation rate                   | Not applicable.   |
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| SOLUBILITY ~0.2 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2); ~30 mg/ml DMSO & DMF;   | •                                    |   |
| DMSO & DMF;   |                                      |   |
| , , , , , , , , , , , , , , , , , , ,   | SOLUBILITY                           | ~0.2 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2); ~30 mg/ml in DMSO & DME: |
|   | . Other information                  |   |

## 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.

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### 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: Sensitization possible through skin contact.
- · Additional toxicological information:
- · 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.

### 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.

#### 14 Transport information

- · UN-Number
- · **DOT**, **IMDG**, **IATA** not regulated
- · UN proper shipping name
- · DOT, IMDG, IATA not regulated

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|   |                                 | (Contd. from page 6) |
|---|---------------------------------|----------------------|
| · Transport hazard class(es)                                      |                                 |                      |
| · DOT, ADN, IMDG, IATA<br>· Class                                 | not regulated                   |                      |
| · Packing group<br>· DOT, IMDG, IATA                              | not regulated                   |                      |
| · Environmental hazards:  | Not applicable.                 |                      |
| · Special precautions for user                                    | Not applicable.                 |                      |
| Transport in bulk according to Annex MARPOL73/78 and the IBC Code | <b>II of</b><br>Not applicable. |                      |
| · UN "Model Regulation":  | not regulated                   |                      |

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · 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 established by ACGIH) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard statements

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

*Use only outdoors or in a well-ventilated area.* 

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves / eye protection / face protection.

(Contd. on page 8)

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(Contd. from page 7)

If on skin: Wash with plenty of water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

If eve irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of preparation / last revision 03/28/2020 / -
- · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

 ${\it IATA: International Air Transport Association}$ 

ACGIH: American Conference of Governmental Industrial Hygienists

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 Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

-US