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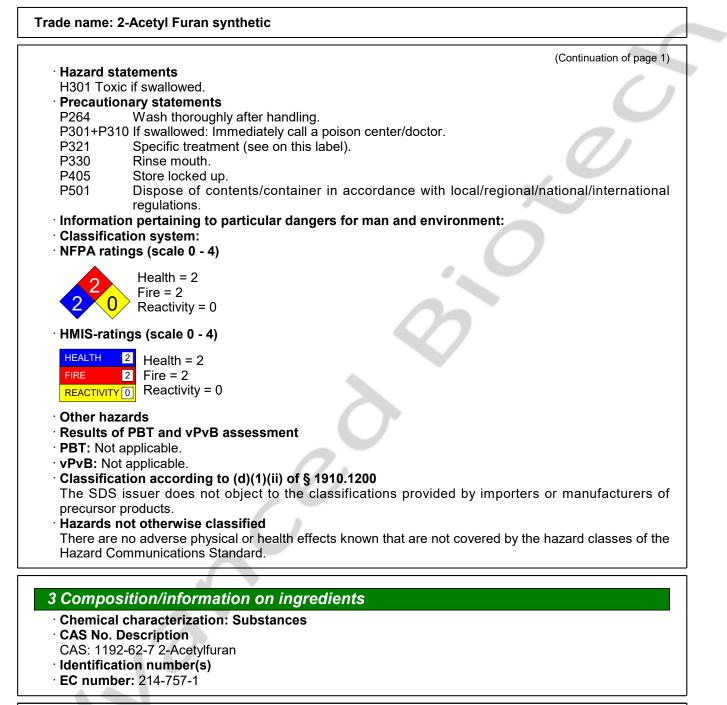
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4 First-aid measures

• Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

- In case of irregular breathing or respiratory arrest provide artificial respiration.
- 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. Then consult a doctor.

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- After swallowing: Do not induce vomiting; immediately call for medical help.
- 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:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.
- Additional information
- Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Dispose contaminated material as waste according to section 13.
- 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.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:
- Please refer to the product specification and/or Certificate of Analysis for product storage requirements. • Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

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· Specific end use(s) No further relevant information available.

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 a basis.
- Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · 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.

· 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 should be based 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 determined by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Goggles recommended during refilling.

9 Physical and chemical properties

General Information	Molecular Weight: 110.11 g/mol	
Physical state	Liquid	
Color:	According to product specification	
Odor:	According to product specification	
Odor threshold:	Not determined.	
Melting point/Melting range:	29-30 °C (84.2-86 °F)	
Boiling point/Boiling range:	67 °C (152.6 °F)	
Flammability:	Not applicable.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	71 °C (159.8 °F)	
Decomposition temperature:	Not determined.	
pH-value:	Not determined.	
Viscosity:		
Kinematic:	Not determined.	
Dynamic:	Not determined.	



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Solubility in / Miscibility with		Т
Water:	Not miscible or difficult to mix.	1
Partition coefficient (n-octanol/water):	Not determined.	
Vapor pressure:	Not determined.	
Vapor pressure:		
Density at 20 °C (68 °F):	1.098 g/cm³ (9.16281 lbs/gal)	
Relative density	Not determined.	
Refractive Index		
Vapor density	Not determined.	
Particle characteristics	Not applicable.	
Other information		٦
Appearance:		
Form:	Solid or liquid	
Important information on protection of her		
and environment, and on safety.		
Ignition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	100.0 %	
Change in condition		
Evaporation rate	Not determined.	

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:
- · LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 138 mg/kg (ATE)

Oral	LD50	138.2 mg/kg (ATE)
Dermal	LD50	100 mg/kg (ATE)
Inhalative	LC50/4 h	1.3 mg/l (ATE)

Primary irritant effect:

· on the skin: No irritant effect.

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- · 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.

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
- 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.

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	UN2810
· UN proper shipping name · DOT	Toxic, liquids, organic, n.o.s. (2-Acetylfuran)
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IMDG, IATA	TOXIC LIQUID, ORGANIC, N.O.S. (2-Acetylfuran)
Transport hazard class(es)	
DOT	
TOXIC	
°	
Class	6.1 Toxic substances
Label	6.1
IMDG, IATA	
$\langle \overset{\mathfrak{m}}{\sim} \rangle$	
Class	6.1 Toxic substances
Label	6.1
Packing group	
DOT, IMDG, IATA	ш 👞
Environmental hazards:	
Marine pollutant:	No
Transport in bulk according to Annex	ll of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 L
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Special precautions for user	Warning: Toxic substances
Stowage Category	A
Stowage Code	SW2 Clear of living quarters.
UN "Model Regulation":	UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (2- ACETYLFURAN), 6.1, III

15 Regulatory information

 $^{\rm \cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\rm \cdot}$ Sara

· Section 355 (extremely hazardous substances):

Substance is not listed.

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SCA (Toxic Substances Control Act): ACTIVE Iazardous 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 reproductive toxicity for males: Substance is not listed. Chemicals known to cause developmental toxicity: Substance is not listed. Chemicals known to cause developmental toxicity: Substance is not listed. Chemicals known to cause developmental toxicity: Substance is not listed. Chemicals known to cause developmental toxicity: Substance is not listed. Chemicals known to cause developmental toxicity: Substance is not listed. Chemicals known to cause developmental toxicity: Substance is not listed. Chemicals known to cause developmental toxicity: Substance is not listed. Chemicals known to cause developmental toxicity: Substance is not listed. Chemicals known to c	(Continuation of page 7
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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.	
GHS label elements Pictograms on label shall be in the shape of a square set at a point and shall symbol on a white background with a red frame sufficiently wide to be clearly visil The substance is classified and labeled according to the Globally Harmonized Sy Hazard pictograms	ole.
GHS06 Signal word Danger Hazard-determining components of labeling: 2-Acetylfuran	

- **Hazard statements**
- H301 Toxic if swallowed.
- · Precautionary statements
- P264 Wash thoroughly after handling. P301+P310 If swallowed: Immediately call a poison center/doctor.
- Specific treatment (see on this label). P321
- P330 Rinse mouth.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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· 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: Product Safety Department · Contact: **Product Safety Department** productsafety@adv-bio.com Date of previous version 01/25/2025 Date of preparation 02/03/2025 Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 Acute toxicity - oral 3: Acute toxicity - Category 3