

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 01/01/2021 Revision date: 06/05/2025 Supersedes version of: Version: 2.0

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

#### Product form Substance name Product code

: Substance : ATTO 576H carboxy : AD 576H-2

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Fluorescent label, labeling of bio-molecules

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

ATTO-TEC GmbH Martinshardt 7 57074 Siegen T +49-271-23853-0 - F +49-271-23853-11 info@atto-tec.com www.atto-tec.com

#### 1.4. Emergency telephone number

#### Emergency number

: +49-271-23853-0 (8:30 - 16:30)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

# 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Precautionary statements (CLP) : P102 - Keep out of reach of children. P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

: EUH210 - Safety data sheet available on request.

EUH-statements

### 2.3. Other hazards

No additional information available

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Name	Product identifier	%	
ATTO 576H carboxy	AD 576H-2	100	
3.2. Mixtures			

Not applicable

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Wash skin with plenty of water.</li> <li>Rinse eyes with water as a precaution.</li> <li>Call a poison center or a doctor if you feel unwell.</li> </ul>	
4.2. Most important symptoms and effects, both acute and delayed		
No additional information available		
4.3. Indication of any immediate medical attention and special treatment needed		
Treat symptomatically.		

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Dry powder. Foam.		
5.2. Special hazards arising from the substance or mixture			
Hazardous decomposition products in case of fire	: Toxic fumes may be released.		
5.3. Advice for firefighters			
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containment and cleaning up			
Methods for cleaning up Other information	<ul><li>Mechanically recover the product.</li><li>Dispose of materials or solid residues at an authorized site.</li></ul>		
6.4. Reference to other sections			

For further information refer to section 13.

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SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.	
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions	: Store at -20°C	
7.3. Specific end use(s)		
No additional information available		

SECTION 8: Exposure controls/personal protection 8.1. Control parameters	
8.1.1 National occupational exposure and biological limit values No additional information available	
8.1.2. Recommended monitoring procedures No additional information available	
8.1.3. Air contaminants formed No additional information available	
8.1.4. DNEL and PNEC No additional information available	
8.1.5. Control banding No additional information available	
8.2. Exposure controls         8.2.1. Appropriate engineering controls	
Appropriate engineering controls:	

Ensure good ventilation of the work station.

## 8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



### 8.2.2.1. Eye and face protection

Eye protection:	
Protective goggles (EN 166)	

### 8.2.2.2. Skin protection

### Skin and body protection:

Wear suitable protective clothing

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Hand protection:					
Protective gloves					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,2	1 (< 4.0)	EN 374-3, EN 374-2

### 8.2.2.3. Respiratory protection

Respiratory protection:
No respiratory protection needed under normal use conditions

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	<ul><li>Not classified</li><li>Not classified</li><li>Not classified</li></ul>
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard 11.2. Information on other hazards	: Not classified

No additional information available

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.	
Hazardous to the aquatic environment, short-term (acute)	: Not classified	
Hazardous to the aquatic environment, long-term (chronic)	: Not classified	

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2.2. Persistence and degradability	
additional information available	
2.3. Bioaccumulative potential	
additional information available	
2.4. Mobility in soil	
additional information available	
2.5. Results of PBT and vPvB assessment	
additional information available	
2.6. Endocrine disrupting properties	
additional information available	
2.7. Other adverse effects	
additional information available	

SECTION 13: Disposa	l considerations
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13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

accordance with ADR / IMD				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID nu	mber			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping	name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard cla	ass(es)			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental haza	ırds			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
Not regulated No supplementary informatio		Not regulated	Not regula	ated

14.6. Special precautions for user

**Overland transport** 

Not regulated

Transport by sea Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

## **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

SDB ATTO 576H carboxy is not on the REACH Candidate List

SDB ATTO 576H carboxy is not on the REACH Annex XIV List

SDB ATTO 576H carboxy is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

SDB ATTO 576H carboxy is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

#### Abbreviations and acronyms:

ADNEuropean Agreement concerning the International Carriage of Dangerous Goods by Inland WaterwaysADREuropean Agreement concerning the International Carriage of Dangerous Goods by RoadATEAcute Toxicity EstimateBCFBioconcentration factorBLVBiological limit valueBODBiochemical oxygen demand (BOD)CODChemical oxygen demand (COD)DMELDerived Minimal Effect levelDNELDerived-No Effect LevelEC-No.European Community numberEC50Median effective concentrationENEuropean StandardIARCInternational Agrency for Research on CancerIATAInternational Ari Transport AssociationIDDSMedian effect LevelLD50Median lethal doseLD50Median lethal doseLD50No-Observed Adverse Effect ConcentrationNAECNo-Observed Adverse Effect ConcentrationNAECNo-Observed Adverse Effect ConcentrationDDGLNo-Observed Adverse Effect ConcentrationNAECNo-Observed Adverse Effect ConcentrationNAECNo-Observed Adverse Effect ConcentrationNAELNo-Observed Adverse Effect ConcentrationNAELNo-Observed Adverse Effect LevelNAELNo-Observed Effect ConcentrationNAELNo-Observed Effect ConcentrationNAELOcupation for Economic Co-operation and DevelopmentOECDOrganisation for Economic Co-operation and DevelopmentOELOcupational Exposure LimitPBTPersistent Bioaccumulat	Abbreviations and acrony	/ms:
ATEAcute Toxicity EstimateBCFBioconcentration factorBLVBiological limit valueBODBiochemical oxygen demand (BOD)CODChemical oxygen demand (COD)DMELDerived Minimal Effect levelDNELDerived-No Effect LevelEC-No.European Community numberEC50Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Adritime Dangerous GoodsLOS0Median lethal concentrationLOS0Median lethal concentrationIADGInternational Adverse Effect LevelLOAELNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Effect LevelNOAELNo-Observed Effect LevelNOAELOcopationin for Economic Co-operation and DevelopmentOEDOcquational Exposure Limit	ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
BCFBioconcentration factorBLVBiological limit valueBODBiochemical oxygen demand (BOD)CODChemical oxygen demand (COD)DMELDerived Minimal Effect levelDNELDerived Monimal Effect levelEC-No.European Community numberEC50Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Agency for Research on CancerLS50Median lefthal concentrationLD50Median lefthal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAECNo-Observed Effect ConcentrationNOAELNo-Observed Effect ConcentrationNOAELOrganisation for Economic Co-operation and DevelopmentOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure Limit	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
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IMDGInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure Limit	IARC	International Agency for Research on Cancer
LC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure Limit	ΙΑΤΑ	International Air Transport Association
LD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure Limit	IMDG	International Maritime Dangerous Goods
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NOAEL     No-Observed Adverse Effect Level       NOEC     No-Observed Effect Concentration       OECD     Organisation for Economic Co-operation and Development       OEL     Occupational Exposure Limit	LOAEL	Lowest Observed Adverse Effect Level
NOEC     No-Observed Effect Concentration       OECD     Organisation for Economic Co-operation and Development       OEL     Occupational Exposure Limit	NOAEC	No-Observed Adverse Effect Concentration
OECD     Organisation for Economic Co-operation and Development       OEL     Occupational Exposure Limit	NOAEL	No-Observed Adverse Effect Level
OEL Occupational Exposure Limit	NOEC	No-Observed Effect Concentration
	OECD	Organisation for Economic Co-operation and Development
PBT Persistent Bioaccumulative Toxic	OEL	Occupational Exposure Limit
	РВТ	Persistent Bioaccumulative Toxic
PNEC Predicted No-Effect Concentration	PNEC	Predicted No-Effect Concentration

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:	
EUH210	Safety data sheet available on request.

The classification complies with : ATP 12

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.