



AURION Tween[®] 20
Safety Data Sheet: Tween[®] 20-05

Section 1: Product and Company Identification

1.1 Product identifiers

Product name: Aurion Tween[®] 20
Product codes: 900.044

1.2 Relevant identified uses of the substance or mixture

Identified uses: Laboratory chemicals

1.3 Company information

Manufacturer: Aurion ImmunoGold Reagents & Accessories
Binnenhaven 5, 6709 PD Wageningen, The Netherlands
Phone: +31-317-415094, Fax: +31-317-415955, Email: info@aurion.nl
Chamber of Commerce 09068171 Arnhem. The Netherlands

1.4 Emergency phone number

Emergency Phone # 112 or 911

Preparation date: July 7, 2020
SDS number: Aurion Tween[®] 20-05

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

2.2. Label elements

Not a hazardous substance or mixture according to regulation (EC) No. 1272/2008

2.3. Other hazards

None

Section 3: Composition / Ingredients

3.1 Substance

Formula C₅₈H₁₁₄O₂₆
Molar Mass 1.228 g/mol

3.2 Mixtures

N/A

Section 4: First Aid Measures

4.1 Description of first aid measures

Eye Contact: Flush with copious amounts of water for at least 15 minutes.
Assure adequate flushing by separating the eyelids with fingers. Consult a physician.
Skin Contact: Flush with copious amounts of water for at least 15 minutes.
Remove contaminated clothing and shoes. Consult a physician.
Ingestion: Wash out mouth with water, provided person is conscious. Consult a physician.
Inhalation: Move to fresh air. If breathing becomes difficult, consult a physician.

4.2 Most important symptoms and effects

See section 2.2 and section 11

4.3. Indication of any immediate medical attention and special treatment

No data available

Section 5: Fire Fighting Measures

5.1 Extinguishing Methods

Use extinguishing media appropriate to surrounding fire conditions.

5.2. Specific Hazard(s)

Combustible. Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3. Special Fire Fighting Procedures

Wear self-contained breathing apparatus and protective clothing if necessary

5.4 Further information

No data available

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas, Ensure adequate ventilation.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Absorb on sand or vermiculite and place in closed containers for disposal.

Wash spill site after material pickup is complete with copious amounts of water.

6.4 Reference to other sections

For disposal see section 13

Section 7: Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

For precautions see section 2.2.

7.2 Conditions for safe storage

Store at room temperature, well ventilated

Avoid freezing

Storage: Store at room temperature

Containers which are opened must be carefully resealed and kept upright to prevent leakage

Section 8: Exposure Controls / Personal Protection

8.1 Control parameters

8.2 Exposure controls

Handle in accordance with Good Laboratory Practice

Wash hands before breaks and end of workday

Personal protective equipment

Eye Protection: Use equipment for eye protection tested and approved under appropriate government standards such as EN 166

Protective Gloves: Chemical-resistant gloves that meet Regulation (EU) 2016/425 and standard EN 374

Body protection: Impermeable clothing, lab coat

Respiratory protection: N/A

Control of environmental exposure: Prevent further leakage or spillage if safe to do so.

Discharge in the environment should be avoided.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Liquid, viscous, clear

pH: 6-8

Flash Point: 275°C (DIN 51758)

Vapour pressure: 1.4 hPa at 20°C

Density: 1.095 g/ml at 25°C

No other data available

9.2 Other safety information

No data available

Section 10: Stability and Reactivity

10.1 Reactivity

Forms explosive mixtures at intense heating (flash point 275°C).

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

Violent reactions possible with strong oxidizers

10.4 Conditions to avoid

Strong heating

10.5 Incompatible materials

Strong oxidizing reagents, strong reducing agents

10.6 Hazardous decomposition products

No data available, in the event of fire see section 5.

Section 11: Toxicological Information

11.1 Information on toxicological effects

Acute oral toxicity: LD50 Rat 38.900 mg/kg (External MSDS)

Acute inhalation toxicity: LC50 Rat > 5.1 mg/l 4h dust/mist

Skin irritation: no skin irritation

Carcinogenicity: No component of this product present at concentrations greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

11.2 Further information

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately

Handle in accordance with good industrial hygiene and safety practice.



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12.1 Toxicity

Toxicity to fish: static test LL50 *Danio rerio* (zebra fish): > 100 mg/l; 96 h OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates: EC50 Daphnia (water flea): > 10 mg/l; 48 h OECD Test Guideline 201

Toxicity to algae: static test EL10 *Pseudokirchneriella subcapitata* (green algae): 19,05 mg/l; 72 h OECD Test Guideline 201

Toxicity to bacteria: microtox test EC50 Bacteria: 146 - 774 mg/l; 5 min (Lit.)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) semi-static test NOELR Daphnia magna (Water flea): 10 mg/l;
21 d OECD Test Guideline 211

12.2 Persistence and degradability

Biodegradability: > 60 %; 28 d; aerobic OECD Test Guideline 301F Readily biodegradable

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Harmful to aquatic life

Section 13: Disposal Considerations

13.1 Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company

Contaminated packaging: Dispose of as unused product

Section 14: Transportation Information

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard classes

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user: -

Section 15: Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with requirements of Regulation (EC) No. 1907/2006

Section 16: Other Information

Laboratory reagent. For research use only. Not for diagnostic or therapeutic use.

AURION makes no warranty of any kind regarding the information furnished herein. These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the user's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.

Abbreviations and acronyms:

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EC50: Median Effective Concentration

OECD: Organisation for Economic Co-operation and Development

NOELR: No-observable Effect Loading Rate

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative