

Material Safety Data Sheet (MSDS)

Section 1 - Chemical Product and Company Identification

Product Name: **Tween 20**

Synonym : Polyoxyethylene 20 Sorbitane mono-Laurate, Polysorbate 20

Product Catalog: C3020

Company Identification: ACE BIOLABS CO., LTD.

Address : 6F., No.68, Qingsheng 2nd St., Dayuan Dist., Taoyuan City33743, Taiwan(R.O.C)

Email: order@acebiolab.com

Tel: +886-3-2870051

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	EC number (EINECS)
9005-64-5	Tween 20	500-018-3

Appearance: liquid

Colour : Yellow to brownish

Granulometry : N/A

Odour : Odourless.

pH : 6 - 8 ((50g/l))

Melting point/freezing point : N/A

Initial boiling point and boiling range : >100 °C

Flash point : > 150 °C

Flammability (solid, gas) : N/A

Upper/lower flammability or explosive limits : N/A

Vapour pressure : N/A

Vapour density : N/A

Relative density: (20/4) 1,1

Solubility: 100 g/l in water (25 °C)

Partition coefficient: n-octanol/water : N/A

Auto-ignition temperature : N/A

Decomposition temperature : N/A

Kinematic viscosity : N/A

Dynamic viscosity : 250 mPa.s()

Section 3 - First Aid Measures

GENERAL INDICATIONS

Never provide drink or induce vomiting in the event of loss of consciousness.

INHALATION EXPOSURE

Go out into the fresh air.

CONTACT WITH THE SKIN

Wash with plenty of water. Remove contaminated clothing.

EYE EXPOSURE

Wash with plenty of water, keeping eyelids open.

SWALLOWING

Drink large amounts of water. Induce vomiting. In the event of sickness, seek medical assistance.

Section 4 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Water. Carbon dioxide (CO₂). Dry powder. Foam.

FIREFIGHTING

Protective Equipment: Suitable clothing and footwear.

Specific Hazard(s): Combustible. Keep away from sources of ignition. In the event of fire, toxic fumes may form.

Section 5 - Accidental Release Measures

INDIVIDUAL PRECAUTIONS

No special indications.

PRECAUTIONS FOR THE CARE OF THE ENVIRONMENT

Avoid pollution of the soil, water supplies and drains.

METHODS FOR COLLECTION/CLEANING

Collect up with absorbent materials or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

Section 6 - Handling and Storage

Handling

No special indications.

Storage

Away from light. Well sealed containers.

Section 7 - Exposure Controls, Personal Protection

Technical protective measures

No special indications.

Exposure limit control

Data not available

Respiratory protection:

Use suitable breathing equipment.

Hand protection

Use suitable gloves

Eye protection

Use suitable goggles.

Individual hygiene measures

Use suitable work clothing. Wash hands before breaks and when the job is done.

Environmental exposure controls

Fulfill the commitments under local environmental protection legislation.

Section 8 – Stability and Reactivity

STABILITY

The product is chemically stable under standar ambient conditions (room temperature).

HAZARDOUS DECOMPOSITION PRODUCTS

No specific data.

Section 9 - Toxicological Information

AUTE TOXICITY

LD50 oral mus : 37.000 mg/kg

LD50 oral rat : 37.000 mg/kg

DANGEROUS EFFECTS FOR HEALTH

Animal testing. Low toxicity. If swallowed in large quantities: nausea vomiting Upon contact with the skin: irritations Through contact with the eyes: irritations Take the usual precautions for handling chemical products.

Section 10 - Disposal Considerations

SUBSTANCE or PREPARATION

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country. In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste. 2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council

Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

CONTAMINATED CONTAINERS

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them. European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

Section 11 - Transport Information

Not classified as dangerous in the meaning of transport regulations.

Section 12 - Regulatory Information

Exemptions from the obligation to Register according to article 2 of Regulation (EC) No. 1907/2006 (REACH)

Section 13 - Additional Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.