

# **SAFETY DATA SHEET**

[Required under safety and health regulations for shipping and handling]

Version: 2021

Date Updated: April 14, 2021

#### SECTION 1. - - - - - PRODUCT AND COMPANY IDENTIFICATION - - - - - - -

Product Name Polyoxyethylene-80 (TWEEN 80)

Product Code(s) TB0562

**Recommended Use** For Laboratory Research Use Only

Not for Human or Animal Drug Use

**Supplier** Bio Basic Inc.

Address 20 Konrad Crescent, Markham, Ontario,

Canada, L3R 8T4

 Telephone
 (905) 474 4493

 Fax
 (905) 474 5794

 For Chemical Emergency Phone#
 (416) 995 9730

## SECTION 2. ----- HAZARDS IDENTIFICATION -----

#### Classification of the substance or mixture

Not a hazardous substance or mixture.

### GHS Label elements, including precautionary statements

Not a hazardous substance or mixture

Hazards not otherwise classified (HNOC) or not covered by GHS - none

## SECTION 3. ---- COMPOSITION/INFORMATION ON INGREDIENTS -----

Chemical Name	EC No.	CAS-No	Weight
Polyoxyethylene-80 (TWEEN 80)	500-019-9	9005-65-6	<= 100%

No components need to be disclosed according to the applicable regulations.

#### SECTION 4. ----- FIRST-AID MEASURES-----

#### If inhaled

If breathed in, move person into fresh air.

#### In case of skin contact

Take off immediately all contaminated clothing. Rinse skin with water/ shower.

#### In case of eye contact

rinse out with plenty of water. Remove contact lenses.

#### If swallowed

make victim drink water (two glasses at most). Consult doctor if feeling unwell.

#### SECTION 5. ----- FIRE FIGHTING MEASURES -----

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Combustible liquid.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

## Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

## Explosion data - sensitivity to mechanical impact

no data available

## Explosion data - sensitivity to static discharge

no data available

## SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

## **Personal precautions**

Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

#### **Environmental precautions**

Do not let product enter drains.

## Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

## SECTION 7. ----- HANDLING AND STORAGE-----

### Precautions for safe handling

For precautions see section 2.

## Conditions for safe storage

Tightly closed.

Storage class (TRGS 510): 10: Combustible liquids

#### SECTION 8. - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - -

## Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

## **Eye/Face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

## Skin and body protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

## Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Change contaminated clothing. Wash hands after working with substance.

## Control of environmental exposure

Do not let product enter drains.

## SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

## **Appearance**

Form viscous

## Safety data

pH no data available

Melting no data available

point/freezing point

Boiling point  $> 100 \,^{\circ}\text{C} > 212 \,^{\circ}\text{F}$  at 1,013 hPa

Flash point > 113 °C (> 235 °F) - closed cup

Ignition temperature no data available

Lower explosion limit no data available Upper explosion limit no data available

Vapour pressure < 1 hPa at 20 °C (68 °F)

Density no data available

Water solubility no data available

Partition coefficient: no data available

n-octanol/water

Relative density 1.064 g/cm3

Odour no data available
Odour Threshold no data available
Evapouration rate no data available

## SECTION 10. ------STABILITY AND REACTIVITY -----

#### Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

#### **Chemical stability**

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

## Possibility of hazardous reactions

No data available

## **Conditions to avoid**

Strong heating.

#### Materials to avoid

No data available

## Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

Other decomposition products - No data

## SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

#### **Acute toxicity**

LD50 Oral - Rat - 34,500 mg/kg

Remarks: (RTECS)

Inhalation: No data available Dermal: No data available

No data available

#### Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation Remarks: (External MSDS)

#### Serious eye damage/eye irritation

Eves - Rabbit

Résult: No eye irritation Remarks: (External MSDS)

#### Respiratory or skin sensitisation

No data available

## Germ cell mutagenicity

No data available

Ames test

Salmonella typhimurium

Result: negative

(National Toxicology Program)

Mutagenicity (mammal cell test):

Result: negative

(National Toxicology Program)

#### Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

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

#### Reproductive toxicity

No data available

## Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

## Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

## **Aspiration hazard**

No data available

#### **Additional Information**

RTECS: WG2932500

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12. ----- ECOLOGICAL INFORMATION -----

## **Toxicity**

No data available

#### Persistence and degradability

Biodegradability Result: 52 % - Not readily biodegradable.

(OECD Test Guideline 301C)

Chemical Oxygen

Demand (COD) 1,750 mg/g

Remarks: (External MSDS)

## **Bioaccumulative potential**

no data available

## Mobility in soil

no data available

#### PBT and vPvB assessment

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

## Other adverse effects

No data available

## SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

#### **Product**

Waste material must be disposed of in accordance with the national and loc No mixing with other waste. Handle uncleaned containers like the product See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

## Contaminated packaging

Dispose of as unused product.

## SECTION 14. ----- TRANSPORT INFORMATION -----

#### DOT (US)

Not dangerous goods

#### **IMDG**

Not dangerous goods

#### **IATA**

Not dangerous goods

## **Further information**

Not classified as dangerous in the meaning of transport regulations.

## SECTION 15. ----- REGULATORY INFORMATION -----

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

## SECTION 16. ----- OTHER INFORMATION-----

Further information: no limited for paper copy, just for internal uses. For research use only. Not intended for human or animal diagnostic or therapeutic uses.

#### Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Issuing Date: 14-Apr-2021

**End of SDS** 



# Bio Basic Inc.

## **CERTIFICATE OF ANALYSIS**

Product Polyoxyethylene-80 (TWEEN 80)

Grade Biotech Grade

Product Code TB0562 Formula N/A MW N/A

CAS# 9005-65-6

Lot No

Acid Value

Test Items

Specifications

Actual Results

Yellow to amber viscous liquid
Hydroxyl Number
65 -80 mgKOH/g
Moisture (KF)
Heavy metals

Specifications

Actual Results

≤10ppm

≤2 mgKOH/g

45-55 mgKOH/g

Storage: 18~25°C.

Saponification Value