

# SAFETY DATA SHEET

1. Identification

Product identifier Anti-Phospho-DNA Topoisomerase IIα (Thr1342) (Human) mAb

Other means of identification

Product code M025-3

Recommended use Research use only.

Recommended restrictions None known.

Manufacturer / Importer / Supplier / Distributor information

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# 2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
OSHA hazard(s) Not classified.

Label elements

Hazard symbolNone.Signal wordNone.Hazard statementNone.Precautionary statement

**Prevention** Observe good industrial hygiene practices.

**Response** Wash thoroughly after handling. **Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None.

# 3. Composition/Information on ingredients

#### **Mixtures**

| Chemical name       | CAS number | %       |
|---------------------|------------|---------|
| Glycerol (Glycerin) | 56-81-5    | 50 - 60 |

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations

are in percent by volume.

#### 4. First aid measures

**Inhalation** Move to fresh air. Get medical attention if discomfort develops or persists.

**Skin contact** Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation

develops or persists. Wash contaminated clothing before reuse.

Revised: 09/30/2016, 2/5

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention if irritation develops or persists.

Ingestion Drink plenty of water. Seek medical advice.

Most important symptoms/ effects, acute and delayed

Irritation of eyes and mucous membranes. Mild skin irritation.

Indication of immediate

medical attention and special

Treat symptomatically.

treatment needed

General information Get medical attention if any discomfort develops.

# 5. Fire fighting measures

Suitable extinguishing media Water. Foam. Dry powder. Carbon dioxide (CO2).

Unsuitable extinguishing

None known.

media

**Specific hazards arising from** Fire or high temperatures create: Carbon oxides.

the chemical

Special protective equipment Self-contained breathing apparatus, operated in positive pressure mode and full protective

and precautions for

firefighters

clothing must be worn in case of fire.

Fire-fighting equipment/instructions Move containers from fire area if you can do that without risk. Use water spray to cool

unopened containers. Prevent entry to sewers and pubic waters.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid inhalation of mist and contact with skin and eyes. For

personal protection, see Section 8 of the SDS.

Methods and materials for containment and cleaning up

Dike far ahead of liquid spill for later disposal. Small Spills: Absorb spillage with suitable absorbent material. Clean contaminated surface thoroughly. After removal, flush

contaminated area thoroughly with water. Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so.

### 7. Handling and storage

Precautions for safe handling Provide adequate ventilation. Use work methods which minimize production of vapors and mists. Avoid inhalation of mist and contact with skin and eyes. Wash hands after handling. Observe good industrial hygiene practices.

Conditions for safe storage,

including any incompatibilities Keep container tightly closed. Store away from incompatible materials.

### 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components                       | Туре | Value    | Form                 |
|----------------------------------|------|----------|----------------------|
| Glycerol (CAS 56-81-5)           | PEL  | 5 mg/m3  | Respirable fraction. |
|                                  |      | 15 mg/m3 | Total dust.          |
| US. ACGIH Threshold Limit Values |      |          |                      |
|                                  | _    |          |                      |

| Components             | Туре | Value    | Form  |
|------------------------|------|----------|-------|
| Glycerol (CAS 56-81-5) | TWA  | 10 mg/m3 | Mist. |
|                        |      |          |       |

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

No exposure standards allocated.

Appropriate engineering

Provide adequate ventilation and minimize the risk of inhalation of vapors and mists.

controls

Individual protection measures, such as personal protective equipment

Eye/face protection Skin protection

Wear safety glasses.

**Hand protection** Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may

penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended

by the glove supplier.

Other Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear protective

gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove

supplier.

In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory Respiratory protection

equipment with combination filter (gas filter/dust filter). Seek advice from local supervisor.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

**Physical state** Liquid.

Viscous liquid. **Form** Colorless. Color Odor Odorless. Not available. **Odor threshold** Neutral. Melting point/freezing point Not available. Not available. Initial boiling point and

boiling range

Not available. Flash point **Evaporation rate** Not available. Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit

Not available.

- lower (%)

Not available. Flammability limit

- upper (%)

Vapor pressure Not available. Vapor density Not available. Relative density Not available. Soluble in water. Solubility(ies) **Partition coefficient** Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature Viscosity** Not available.

#### 10. Stability and reactivity

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

**Chemical stability** Stable at normal conditions. Possibility of hazardous Hazardous reactions do not occur.

reactions

Strong heating. Contact with incompatible materials. Conditions to avoid

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

None known.

products

# 11. Toxicological information

## Information on likely routes of exposure

Ingestion may cause irritation and malaise. Ingestion

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation

hazard.

**Skin contact** May cause skin irritation. Causes skin irritation.

Eye contact May cause eye irritation on direct contact. Causes eye irritation.

Symptoms related to the physical, chemical and Irritation of eyes and mucous membranes. Mild skin irritation.

toxicological characteristics

Information on toxicological effects

**Acute toxicity** Ingestion may cause irritation and malaise.

**Skin corrosion/irritation** May cause skin irritation.

Serious eye damage/eye May cause eye irritation on direct contact.

irritation

Respiratory sensitization
Skin sensitization
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Not classified.
Not classified.
Not classified.
Not classified.

**Specific target organ toxicity** Knowledge about health hazard is incomplete.

- single exposure

**Specific target organ toxicity** Knowledge about health hazard is incomplete.

- repeated exposure

Aspiration hazard Not classified.

## 12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude

the possibility that large or frequent spills have a harmful or damaging effect on the

environment.

Persistence and degradability The product is biodegradable.

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient n-octanol / water (log Kow)

Glycerol (CAS 56-81-5) -1.76

**Mobility in soil** Expected to be highly mobile in soil.

**Mobility in general** The product is water soluble and may spread in water systems.

Other adverse effects No data available.

# 13. Disposal considerations

**Disposal instructions** Dispose of in accordance with all applicable regulations. Do not discharge into drains, water

courses or onto the ground.

**Local disposal regulations** Dispose of in accordance with local regulations.

Hazardous waste code Not regulated.

Waste from residues / unused Dispose of in accordance with local regulations.

products

**Contaminated packaging** Dispose of in same manner as unused product.

# 14. Transport information

DOT Not regulated as a dangerous good.

IATA Not regulated as a dangerous good.

IMDG Not regulated as a dangerous good.

Transport in bulk according Not applicable.

to Annex II of MARPOL 73/78

and the IBC Code

### 15. Regulatory information

**US federal regulations** This product is hazardous according to OSHA 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories** 

> Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Not regulated.

SARA 302 Extremely hazardous substance No SARA 311/312 Hazardous chemical Yes

Other federal regulations

Not regulated. Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Safe Drinking Water Act (SDWA) Not regulated. Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR Not listed.

1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21

CFR 1310.12(c))

**DEA Exempt Chemical Mixtures Code Number** Not regulated. Not regulated. Food and Drug Administration (FDA)

**US** state regulations This product does not contain a chemical known to the State of California to cause cancer,

birth defects or other reproductive harm.

Massachusetts RTK - Substance List Glycerol (CAS 56-81-5)

Not regulated. **New Jersey Worker and Community Right-to-Know Act** 

Glycerol (CAS 56-81-5) Pennsylvania RTK - Hazardous Substances Glycerol (CAS 56-81-5) **Rhode Island RTK** 

California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT) Not listed.

#### **International Inventories**

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)             | Yes                    |
| Canada                      | Domestic Substances List (DSL)                                 | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                            | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)     | Yes                    |
| Europe                      | EC Inventory   | Yes                    |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)       | Yes                    |
| Korea                       | Existing Chemicals List (ECL)                                  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PIC | CS) Yes                |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                  | Yes                    |

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

Issue date 09/28/2011 09/30/2016 **Revision date** Version 10

**Further information** Not available. References **IUCLID** 

Disclaimer This information is provided without warranty. The information is believed to be correct. This

information should be used to make an independent determination of the methods to

safeguard workers and the environment.