

First issue: May. 1. 2014 Revised: May. 31. 2022

SDS No.903F

Safety Data Sheet

1 Chemical Product and Company Identification

Identification of the product N-Acetylneuraminic acid aldolaase

Product Code NAL-301

Supplier

TOYOBO CO., LTD. Name

Osaka Umeda Twin Towers South, Address

1-13-1 Umeda Kita-ku, Osaka 530-0001, Japan

Department Biotechnology Overseas Sales and Marketing Department

+81-6-6348-3846 Phone +81-6-6348-3833 Fax Recommended use and restrictions on use diagnostic product

Hazard Identification

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Most Important Hazards and Effects The product might cause allergic reactions upon inhaling or skin contact

because of the protein contained.

Classification not possible GHS classification

Composition/Information on Ingredients

Substance/Mixture Mixture

Chemical Nature N-Acetylneuraminic acid aldolaase

CAS# 9027-60-5 ca. 65%(W/W) Concentration or concentration range Stabilizer, etc

Ingredients Contributing to the Hazard The ingredients known as hazardous are not included.

First Aid Measures

Inhalation Remove to fresh air. Consult a physician when unpleasantness occurs.

Skin Contact Wash off with plenty of water. Consult a physician when inflammation on

the skin occurs.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

Ingestion Swill plentiful amount of water or milk for immediate vomiting, consult

a physician.

Fire Fighting Measures

Extinguishing Media Water spray, dry chemical powder, or carbon dioxide etc.

Protection of Firefighters Avoid working at leeward.

Accidental Release Measures

Personal Precautions Wear protective gear to avoid eye/skin contact and inhalation. Do not

work at leeward.

Environmental Precautions High concentrated waste fluid should not be directly discharged into

Methods for Cleaning up Take up under vacuum using dust collecting filter, wash residual spill with copious amounts of water. Use cloth, paper or anything similar to

soak up the solution leaking out of the container.

(Waste water should be treated with activated sludge or adsorbed with

activated carbon atc)

Handling and Storage

Handling

Technical Measures Wear protective gear to avoid eye/skin contact and inhalation. Do not

drop the container to prevent the content popping out.

Precautions None specified.

Storage

Technical Measures Keep sealed container in freezer.

Incompatible substances and mixtures None specified.

Store under -20℃ to avoid deactivating. Storage Conditions Use the initial container of the product. Packaging Materials

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8 Exposure Controls/Personal Protection

Engineering Measures Provide shower and eye washing apapratus nearby.

Personal Protective Equipment

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Respiratory Protection Protecting mask.

Hand Protection Protecting gloves (rubbers or plastic gloves etc.).

Eye Protection Safety goggles.

Skin and Body Protection Long sleeve working wear.

9 Physical and Chemical Properties

Physical State Powder

Colour/Odour Light Yellow/No odour

pH ca. Ph7.0-8.0 in the case of 100 mg/ml in water.

Decomposition Temperature

Flash Point

Density

Solubility

No information available.
No information available.
No information available.
Easily soluble in water.

10 Stability and Reactivity

Stability Stable at temperatures below -20°C. When left for long at room

temperature, proteins might be degraded, which does not cause any

hazardous reaction.

Possible hazard reactions at specific

condition Not specified.

Conditions to avoid Prolonged storage at temperatures higher than room temperature and high

humidity.

Materials to avoid Any materials which dissolve or destroy proteins such as strong acid or

alkali.

Hazardous Decomposition Products No information available.

11 Toxicological Information

Acute Toxicity

No information available.

Skin corrosion/irritation

No information available.

Eye damage/irritation

No information available.

Sensitization Might cause allergic reactions upon inhaling or skin contact because of

the protein contained.

Germ cell mutagenicity

Carcinogenicity

No information available.

No information available.

No information available.

No information available.

Specific target organ toxicity

No information available.

(Single exposure)

Specific target organ systemic toxicity No information available.

(Repeated exposure)

Aspiration toxicity No information available.

12 Ecological Information

Persistence/Degradability long.

13 Disposal Considerations

Residues Dispose of in accordance with all applicable local and national laws and

regulations.

Co_ Wash with copious amounts of water and waste conforming to local

regulations depending on the type of the material.

14 Transport Information

International Regulations None specified (Not classified as hazardous material as per the UN

recommendation).

Domestic Regulations None specified.

Specific Precautions Keep at temperatures below -20°C.

15 Regulatory Information

Regulations Follow all of the laws and regulations in your country.

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 $\begin{array}{c} \textbf{16 Other Information} \\ \text{Notice} \end{array}$

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The information shall not be taken as being all inclusive and is to be used only a guide. All materials and mixtures may be present unknown hazards and should be used with caution. The SDS is subject to revision as new information becomes available. The information in this SDS, to the best of our knowledge, is accurate and correct. However, TOYOBO makes no warranty and assumes no liability whatsoever in connection with any use of this information.