

## SAFETY DATA SHEET

SDS: A6153-2100\_E001

Date Prepared: 2019/08/30

Date Revised: 2023/01/10

Product Name: **AMINOALCOHOL tr-BDEA****1. Identification of the substance/mixture and of the company/undertaking**

Product name: AMINOALCOHOL tr-BDEA  
Identification of the supplier: Nippon Nyukazai Co., Ltd.  
Address: No.4-1.Nihonbashi Kobuna-cho, Chuo-ku, Tokyo 103-0024, Japan  
Charge section: Business Operation Department  
(TEL:+81-3-5651-5640,FAX:+81-3-5651-5646)  
Emergency telephone number: Business Operation Department  
(TEL:+81-3-5651-5640,FAX:+81-3-5651-5646)  
Recommend use: intermediate raw materials  
Restrictions on use: Seek expert judgment when using for purposes other than those recommended.

**2. Hazards identification**

Hazard category Not applicable

**3. Composition/information on ingredients****3.1. Substances**

## Ingredients and Concentration

Ingredient Name	Concentration wt. %	CAS RN®	Existing and New Chemical Substances (JAPAN)	Industrial Safety and Health Law Substances (JAPAN)	Industrial Safety and Health Law (JAPAN)	Pollutant Release Transfer Register Law (JAPAN)	Poisonous and Deleterious Substances Control Act (JAPAN)
			Gazette notice reference number	Gazette notice reference number	Notifiable Substances	Specified Substances	Poisonous and Deleterious Substances
N-tert-Butyldiethanolamine	99-100	2160-93-2	2-334, 2-353	Public	Not applicable	Not applicable	Not applicable

**3.2. Mixtures**

Not Applicable

**4. First aid measures**

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
If breathing is stopped, lie on your back and perform cardiopulmonary respiration.

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Skin contact:	Get medical advice/attention. Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water.
Eye contact:	If skin irritation or a rash occurs: Get medical advice/attention. Immediately flush eye with plenty of clean water for at least 15 minutes. (If easy to do, remove contact lenses, if worn.) Get medical attention immediately.
Ingestion:	After having swallowed it, Drink a large quantity of water when consciousness becomes clear and receive treatment for the doctor immediately. A mouth must not give a person without the consciousness a thing.
Protection for first aid person:	The rescuer wears a tool for appropriate protection depending on the situation.

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**5. Firefighting measures**

Suitable extinguishing media:	Use water spray(fog), foam, dry chemical or CO2.
Extinguishing media to avoid:	Straight stream water.
Specific hazards arising from the chemical:	At the time of fire, hazardous gases (carbon monoxide, NOx and others) can be generated.
Fire fighting:	Keep upwind of fire. Eliminate all ignition sources if safe to do so. In case of fire in the surroundings, move the content/container to the safety place. If it is not possible to move, cool the content/container with water spray.
Special protective equipment and precautions for fire fighters:	Gloves, protection glasses, wear fire, flame resistant, retardant clothing, air respiratory organs wear a tool for appropriate protection.

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**6. Accidental release measures**

Personal precautions, protective equipment and emergency procedures:	Promptly remove possible ignition sources from the vicinity. Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Environmental precautions:	To environment (area of the sea, the soil) must not release it.
Methods and materials for containment and cleaning up:	Absorb this product with inactive materials (example: dry sand, earth) and recover it into a waste material container. In the case of large amount, stop leakage with earth/sand to begin with, and, then, recover it. In the case of a small quantity, I adsorb it in the earth and sand, a waste and collect it in empty container which I can seal up after having removed it.

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## Handling

Technical measures:	During handling, be sure to wear proper protective equipment (refer to the section 8). This product can be charged with static electricity. Take countermeasures for static electricity removal (grounding, others). Wear antistatic clothes and antistatic shoes to prevent human body electrification. Use explosion-proof electrical/ventilating/lighting equipment.
Ventilation requirements:	Use the ventilation equipment described in Section 8.
Precautions for safe handling:	Not especially.

## Storage

Storage conditions:	Store the containers avoiding direct sunlight. Store in less than 40°C in a well-ventilated room.
Safety adequate container materials:	Use the container specified by the Fire Service ACT and the United Nations Transport Regulations.

**8. Exposure controls/personal protection**

Appropriate engineering controls:	Use local ventilation equipment. Install eye and body washing facilities near the handling place. Display the position of equipment clearly.
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## Control parameters

Ingredient Name	Industrial Safety and Health Law (JAPAN)	Japan Society for Occupational Health	ACGIH-TLV	
	Administrative Control Levels	Occupational Exposure Limits	TWA	STEL
N-tert-Butyldiethanolamine	Not established	Not established	Not established	Not established

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## Personal protective equipment

Respiratory protection:	Use a gas mask for organic gases, air-supplied respirator, self-contained compressed air breathing apparatus on the situation.
Hand protection:	Organic solvent impermeable protective gloves (Antistatic ones are desirable.)
Eye/face protection:	Protective glasses, goggle, protective face shield.
Skin/body protection:	Wear long-sleeved working clothes and protective shoes.(Antistatic ones are desirable.)
	Use an oiliness apron-resistant, boots depending on the situation.
Hygiene measures:	Wash with soap and water after handling.

## 9. Physical and chemical properties

## Product

Form:	Solid (20℃)
Color:	White~Light yellow
Odor:	Ammonia odor
Melting point/freezing point:	45(℃)
Initial boiling point and boiling range:	270.4(℃)
Flammability (solid, gas):	No data
Upper/lower flammability or explosive limits:	No data
Flash point:	149(℃) (Cleveland Open Cup)
Auto-ignition temperature:	No data
Decomposition temperature:	No data
pH:	11.4(5%aq.)
Kinematic viscosity:	No data
Solubility:	water : Soluble.
Partition coefficient: n-octanol/water:	No data
Vapour pressure:	No data
Specific Gravity:	0.967(50℃)
Vapour density:	No data
Particle characteristics:	No data

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Product Name: **AMINOALCOHOL tr-BDEA****10. Stability and reactivity**

Chemical stability:	Stable under normal temperatures and pressures.
Possibility of hazardous reactions:	It may react with the oxidizing agent and generate heat.
Conditions to avoid:	Avoid heat, flames, sparks and ignition sources.
Incompatible materials:	Acid, Oxidizing agents.
Hazardous decomposition products:	No data available

**11. Toxicological information**

## Product

Acute toxicity (oral):	Classification not possible
Acute toxicity (dermal):	Classification not possible
Acute toxicity (inhalation):	Classification not possible (Gas)
	Classification not possible (Vapour)
	Classification not possible (Dust/Mist)
Skin corrosion/irritation:	Classification not possible
Serious eye damage/irritation:	Classification not possible
Respiratory sensitization:	Classification not possible
Skin sensitization:	Classification not possible
Mutagenicity:	Classification not possible
Carcinogenicity:	Classification not possible
Reproductive toxicity:	Classification not possible
Target organ effect/Single exposure:	Classification not possible
Target organ effect/Multi exposure:	Classification not possible
Respiratory toxic:	Classification not possible

## Ingredient

No Data

**12. Ecological information**

## Product

Ecotoxicity	
Acute toxicity:	Classification not possible
Chronic toxicity:	Classification not possible
Persistence and degradability :	No information.
Bioaccumulative potential :	No information.
Mobility in soil:	No information.
Hazardous to the ozone layer:	Classification not possible

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Other impact : No information.

Ingredient

No Data

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**13. Disposal considerations**

Disposal methods: When waste materials and waste water are to be treated, collect them into specified containers and entrust the disposal to a disposal contractor having an industrial waste disposal contractor permit.  
Do not use the used containers for other purposes like filling other substances. Be sure to dispose of them after treating the content according to the above description. In case of recycling the container, return the container as it is after fitting a stopper without filling anything into it.

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**14. Transport information**

International regulations : UN classification : Not applicable  
UN number : Not applicable  
Proper shipping name : Not applicable  
Packing group : Not applicable  
Domestic restriction: Transport the material in accordance with the regulations in your country or region.  
Specific security precaution and condition of transportation: Load the containers in such a way as not to wet with water, fall down, tumble, or being damaged. Cover the loaded cargo to prevent direct sunlight.  
Emergency Response Guide (ERG) Numbers: 171

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**15. Regulatory information**

Regulatory information with regard to this substance in your country or region should be examined by your own responsibility.

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**16. Other information**

Reference	Information obtained in NITE (National Institute of Technology and Evaluation) and other literature surveys.
Disclaimer	<p>About the description: This SDS was created in accordance with JIS Z 7253 based on the materials and data available at the time of creation.</p> <p>Detailed information such as composition and ingredients corresponding to overseas legal regulation registration confirmation etc. may not be described, so please contact our sales staff separately if necessary.</p> <p>Precautions are for normal handling. In case of special handling, it is the responsibility of the user to take safety measures suitable for the intended use and usage.</p> <p>We have paid close attention to the contents, but we do not guarantee the contents.</p> <p>This product can only be used for industrial purposes. If you want to use it for other purposes, please contact us in advance.</p>