SDS: A5541-0000_E001 Date Prepared: 2018/08/08 Date Revised: 2023/01/10

Product Name: DI BUTYL DI GLYCOL (DBDG)

1. Identification of the substance/mixture and of the company/undertaking

Product name:	DI BUTYL DI GLYCOL (DBDG)
Identification of the	Nippon Nyukazai Co., Ltd.
supplier:	
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	Business Operation Department
number:	(TEL:+81-3-5651-5640,FAX:+81-3-5651-5646)
Recommend use:	diluent, reaction solvent, for solder
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	Concentr ation wt.%	CAS RN®		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)
Wt.%		Gazette notice reference number	Gazette notice reference number	Notifiable Substances	Specified Substances	Poisonous and Deleterious Substances	
Diethylene Glycol Di-n-butyl Ether	98-100	112-73-2	2-3870, 7- 1321	2-(12)-182		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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	Get medical advice/attention.
Skin contact:	Take off contaminated clothing and wash before reuse.
	Wash with plenty of soap and water.
	If skin irritation or a rash occurs: Get medical advice/attention.
Eye contact:	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.

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	At the time of fire, hazardous gases (carbon monoxide and others) can	
chemical:	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.	

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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7. Handling and storage

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	Concentration promotes the formation of peroxide. Do not evaporate to
	handling:	dryness.
Storage		
2 torage	Storage conditions:	Store the containers avoiding direct sunlight. Store in less than 40°C in a well-ventilated room.
	Safety adequate	Use the container specified by the Fire Service ACT and the United
	container	Nations Transport Regulations.
	materials:	

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.

Control parameters

Ingredient Name	Industrial Safety and Health Law (JAPAN)	Japan Society for Occupation al Health	ACGI	H-TLV
	Administra tive Control Levels	Occupation al Exposure Limits		STEL
Diethylene Glycol Di-n-butyl Ether			Not established	Not established

Personal protective equipment

Respiratory protection:

Use a gas mask for organic gases, air-supplied respirator, self - contained compressed air breathing apparatus on the situation.



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Hand protec	0	ic solvent impermeable protective gloves (Antistatic ones are
Eye/face pro	desiral tection: Protec	ble.) tive glasses, goggle, protective face shield.
Skin/body pr		ong-sleeved working clothes and protective shoes.(Antistatic
		re desirable.)
	Use ar	oiliness apron-resistant, boots depending on the situation.
Hygiene measures:	Wash	with soap and water after handling.

9. Physical and chemical properties

Product

Form:	Liquid (20°C)
Color:	Colorless transparent
Odor:	-
	Slight ether odor
Melting point/freezing	-60.2(°C)
point:	
Initial boiling point and	254.6(°C)
boiling range:	NT 1 -
Flammability (solid, gas):	
Upper/lower flammability	No data
or explosive limits:	
Flash point:	122(°C)
Auto-ignition	≥150(°C)
temperature:	
Decomposition	No data
temperature:	
pH:	No data
Viscosity:	2.4(mPa ⋅ s)(20°C)
Kinematic viscosity:	No data
Solubility:	water : 0.3(%)
Partition coefficient: n-	No data
octanol/water:	
Vapour pressure:	1.33(Pa)(20°C)
Specific Gravity:	0.884(20°C)
Vapour density:	No data
Particle characteristics:	No data

10. Stability and reactivity

Chemical stability:	Stable under normal temperatures and pressures.
Possibility of hazardous	It may react with the oxidizing agent and generate heat.
reactions	
Conditions to avoid:	Avoid heat, flames, sparks and ignition sources.

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Incompatible materials: Hazardous decomposition products: Acid, Oxidizing agents. 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
Other impact :	No information.

Ingredient

No Data

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13. Disposal considerations

Disposal When waste materials and waste water are to be treated, collect them into specified containers methods: 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.

14. Transport information

Internation al	UN classification :	Not applicable
regulations	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

15. Regulatory information

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

16. Other information

Reference

Information obtained in NITE (National Institute of Technology and Evaluation) and other literature surveys.



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Disclaimer	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. 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. 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. We have paid close attention to the contents, but we do not guarantee the contents. This product can only be used for industrial purposes. If you want to use it for
	other purposes, please contact us in advance.