

Dow Corning Toray Co., Ltd.
Material Safety Data Sheet

TORAY

Dow Corning Toray Co., Ltd.

Revision Date: 2009/11/20
MSDS No.: 02576660

DOW CORNING TORAY DY 32-1000 U

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : DOW CORNING TORAY DY 32-1000 U
Company Name : Dow Corning Toray Co., Ltd.
Address : 100-0005, AIG Bldg., 1-1-3 Marunouchi, Chiyoda-ku, Tokyo, Japan
Phone Number : 03-3287-8300 (Customer Service)
Fax Number : 03-3287-8311
Product Code : 02576660
Emergency Telephone Number : 0436-21-3101

2. HAZARDS IDENTIFICATION

GHS Classification : Not applicable for GHS classification.
GHS Label Elements
Pictogram or Symbol : None.
Signal Word : None.
Hazard Risk Statement : Not hazardous.
Precautionary Statement
Prevention : Avoid contact with eyes.
Response : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage : Not applicable.
Disposal : Not applicable.
Other Hazard : None known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization : Mixture
Generic Name : Silicone compound

Ingredients and Contents

<u>CAS Number</u>	<u>ENCS Number</u>	<u>Chemical formula</u>	<u>Wt %</u>	<u>Component Name</u>	<u>GHS Classification</u>
556-67-2	(7)-475	Cycl-(Si(CH ₃) ₂ O) ₄	10 - 20 0.1 - 1	Silica Octamethylcyclotetrasiloxane	- Flammable liquid: Category 3 Reproductive toxicity (Inhalation - vapour): Category 2 Chronic aquatic hazard: Category 4

Comments : This product contains the above chemical(s) listed by Japanese regulations and/or classified and containing not less than cut-off value by GHS.

4. FIRST AID MEASURES

In Case of Inhalation : No first aid should be needed.
In Case of Skin Contact : No first aid should be needed.
In Case of Eye Contact : Immediately flush with water.
In Case of Ingestion : Get medical attention.
Comments : Treat symptomatically.

Possible Acute and Chronic Health Effect:Acute

Eyes : No significant irritation expected from a single exposure.

Dow Corning Toray Co., Ltd.
Material Safety Data Sheet

'TORAY'

Dow Corning Toray Co., Ltd.

Revision Date: 2009/11/20
MSDS No.: 02576660

DOW CORNING TORAY DY 32-1000 U

Skin	: No significant irritation expected from a single short-term exposure.
Inhalation	: No significant effects expected from a single short-term exposure.
Ingestion	: Low ingestion hazard in normal use.
Chronic	
Skin	: No known applicable information.
Inhalation	: No known applicable information.
Ingestion	: Repeated ingestion or swallowing large amounts may injure internally.
Other Health Hazard Information	: No known applicable information.
Important Symptoms and Hazard Effects	: No significant adverse effects from normal use.
Personal Protection for First Aid or Rescue Personnel	: No respiratory protection should be needed. Use proper protection - safety glasses as a minimum. Washing at mealtime and end of shift is adequate.
Note to physicians	: Treat symptomatically. For further information, the medical practitioner should contact Dow Corning Toray Co.,Ltd.

The above listed potential effects of overexposure are based on actual data, the results of studies performed upon similar compositions, component data, and/or expert review of the products.

5. FIRE-FIGHTING MEASURES

Extinguishing Media	: On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO ₂), dry chemical or water spray. Water can be used to cool fire exposed containers.
Unsuitable Extinguishing Media	: None established.
Specific Hazards during Fire	: None.
Specific Fire Fighting	: Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
Protection for Fire-fighter	: Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	: Do not take internally. Please refer to section 8 Protective equipment.
Environmental Precautions Recovery and Neutralization/ Methods and Materials for Containment and Cleaning up	: Do not allow large quantities to enter drains or surface waters. : Observe all personal protective equipment recommendations described in this MSDS. Collect and contain for salvage or disposal. Laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which laws and regulations are applicable.

7. HANDLING AND STORAGE

Handling	
Technical Measures	: Use with adequate ventilation.
Local and General Ventilation	: Please refer to section 8 Ventilation.
Precautions	: Do not take internally.
Safe Handling Advice	: Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
Avoidance of Contact Storage	: Please refer to section 10 Conditions to Avoid and Materials to Avoid.

Dow Corning Toray Co., Ltd.
Material Safety Data Sheet

'TORAY'

Dow Corning Toray Co., Ltd.

Revision Date:

2009/11/20

MSDS No.:

02576660

DOW CORNING TORAY DY 32-1000 U

Technical Measures and Storage Conditions : Use reasonable care and store away from oxidizing materials.
Packaging Material : None established.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Concentration Control Notification #79 from Ministry of Labor

None known.

Industrial Hygiene Standards

<u>Component Name</u>	<u>Exposure Limits</u>
Octamethylcyclotetrasiloxane	Dow Corning guide: TWA 10 ppm.

Engineering Measures

Local Ventilation : None should be needed.

General Ventilation : Recommended.

Personal Protective Equipment

Personal Protective Equipment for Routine Handling

Respiratory protection : No respiratory protection should be needed.

Suitable Respirator : None should be needed.

Hand protection : No special protection needed.

Eye protection : Use proper protection - safety glasses as a minimum.

Skin protection : Washing at mealtime and end of shift is adequate.

Hygiene Measures : Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

Personal Protective Equipment for Spills

Respiratory protection : No respiratory protection should be needed.

Eye protection : Use proper protection - safety glasses as a minimum.

Skin protection : Washing at mealtime and end of shift is adequate.

Precautionary Measures : Do not take internally. Use reasonable care.

Comments : If this product is heated to > 150 degrees C, trace quantities of formaldehyde may be released, and adequate ventilation is required.

Note : These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Form : Rubber-Crepe

Color : Off-White

Odour : Odorless

pH : Not determined.

Melting point/Freezing Point : Not determined.

Boiling point, Initial Boiling Point, and Boiling Range : Not determined.

Flash Point : > 100 °C(Seta Closed Cup)

Characteristics of Explosives : Not determined.

Vapor Pressure @ 25°C : Not determined.

Vapor Density(air=1) : Not determined.

Specific Gravity : 1.035 g/cm³

Solubility : Not determined.

Dow Corning Toray Co., Ltd.
Material Safety Data Sheet

'TORAY'

Dow Corning Toray Co., Ltd.

Revision Date: 2009/11/20
MSDS No.: 02576660

DOW CORNING TORAY DY 32-1000 U

Octanol/water partition	: Not determined.
Autoignition Temperature	: Not determined.
Decomposition Temperature	: Not determined.
Odour Threshold	: Not determined.
Evaporation Rate	: Not determined.
Flammability (solid, gas)	: Not applicable.
Viscosity	: Not determined.

The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

10. STABILITY AND REACTIVITY

Stability	: Stable.
Possibility of Hazardous Reactions	: Hazardous polymerization will not occur.
Conditions to Avoid	: None.
Materials to Avoid	: Can react with strong oxidising agents.
Hazardous Decomposition Products	: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Please refer to Section 3 and Section 4 Health Effect.

Skin Corrosion/ Irritation	: Please refer to Section 3 and Section 4 Health Effect.
Serious Eye Damage/ Irritation	: Please refer to Section 3 and Section 4 Health Effect.
Respiratory Organs Sensitization or Skin Sensitization	: Please refer to Section 3 and Section 4 Health Effect.
Germ Cell Mutagenicity	: Please refer to Section 3, Section 4 Health Effect and Section 15 ISHL Mutagen Substance.
Carcinogenicity	: Please refer to Section 3, Section 4 Health Effect and Section 15 ISHL Carcinogen Substance.
Reproductive Toxicity Specific Target Organ.	: Please refer to Section 3 and Section 4 Health Effect.
Systemic Toxicity (Single Exposure)	: Please refer to Section 3 and Section 4 Health Effect.
Specific Target Organ. Systemic Toxicity (Repeated Exposure)	: Please refer to Section 3 and Section 4 Health Effect.
Aspiration Hazard	: Please refer to Section 3 and Section 4 Health Effect.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects

Acute	: No adverse effects on aquatic organisms are predicted.
Chronic	: No adverse effects on aquatic organisms are predicted.

Fate and Effects in Waste Water Treatment Plants : No adverse effects on bacteria are predicted.

Persistence and Degradability

Dow Corning Toray Co., Ltd.
Material Safety Data Sheet

'TORAY'

Dow Corning Toray Co., Ltd.

Revision Date: 2009/11/20
MSDS No.: 02576660

DOW CORNING TORAY DY 32-1000 U

Water : Solid material, insoluble in water.

Bioaccumulative Potential
Bioaccumulation : No bioaccumulation potential.

Mobility in Soil : This product is a solid and does not contain significant concentrations of water soluble constituents that may be leached from the product. It is therefore not likely to present a danger to terrestrial organisms.

Additional Environmental Information : No specific information is available.

13. DISPOSAL CONSIDERATIONS

Residual Waste : This product falls under Industrial Waste based on Wastes Disposal and Public Cleansing Law. Dispose of in accordance with local regulations.

Contaminated Containers or Packaging : Dispose of in accordance with local regulations.

Note : None.

14. TRANSPORT INFORMATION

Local Regulations : Refer to Section 15.

International Regulations
Sea Transport (IMDG)
Not subject to IMDG code.

Air Transport (IATA)
Not subject to IATA regulations.

15. REGULATORY INFORMATION

Law Concerning Examination and Regulation of Manufacture, etc. of Chemical Substances : This product is not applied into the code about Specified Chemical Substances, Monitoring Chemical Substances and Designated Chemical Substances.

Industrial Safety and Health Law

Notification Substance	<u>Specific Number</u>	<u>Notification Component(s)</u>	<u>Wt %</u>
	312	Silica	10 - 20
Indication Substance	: Not applicable.		

Ordinance on Prevention of Organic Solvent Poisoning : Not applicable.

Ordinance on Prevention of Hazards due to Specified Chemical Substances : Not applicable.

Ordinance on Prevention of Lead Poisoning : Not applicable

Ordinance on Prevention of Tetraalkyl Lead Poisoning : Not applicable

Hazardous Material Banned Substance : Not applicable
: Not applicable

Dow Corning Toray Co., Ltd.
Material Safety Data Sheet

'TORAY'

Dow Corning Toray Co., Ltd.

Revision Date: 2009/11/20
MSDS No.: 02576660

DOW CORNING TORAY DY 32-1000 U

Mutagen Substance	: Not applicable.
Carcinogen Substance	: Not applicable.
High Pressure Gas Safe Law	: Not applicable.
Fire Service Law	: DESIGNATED FLAMMABLE SUBSTANCES, OTHER PLASTICS (3,000kg)
Poisonous and Deleterious Substance Control Law	: Not applicable.
Pollutant Release and Transfer Register	: Not applicable.
Marine Pollutant Prevention Law	: Not Classified as a Marine Pollutant
Chemical Inventories	
TSCA	: Not determined.
IECSC	: All ingredients listed or exempt.
ENCS/ISHL	: All components are listed on ENCS/ISHL or its exempt rule.
AICS	: All ingredients listed or exempt.
KECL	: All ingredients listed, exempt or notified.
EINECS	: Not determined.
DSL	: Not determined.
PICCS	: Not determined.

16. OTHER INFORMATION

Bibliography: Statue book of chemicals, Internal Technical Data and others

JAMP MSDSplus	This is based on MSDSplus by JAMP(Joint Article Management Promotion-consortium).		
Substance Information	This product doesn't contain object substances listed the following regulations. The objects of investigation are the followings. Substances are applied to the regulation for JP01, JP02, or JP03. They are contained intentionally or their concentration is more than or equal to the cutoff value for EU01 or EU02. Their concentration is more than or equal to 0.1% for EU03, EU04, or EU05. OT01, IA01, IA02 are not a subject of investigation.		
Relevant Standard	<u>Symbol</u>	<u>Relevant Standard</u>	<u>Issued or revised</u>
	JP01	Law Concerning Examination and Regulation of Manufacture, etc. of Chemical Substances (Class I Specified Chemical Substances)	2007/10/31
	JP02	Industrial Safety and Health Law (Banned Substances)	2007/09/07
	JP03	Poisonous and Deleterious Substance Control Law (Specified Poisonous Substances)	2007/08/15
	EU01	RoHS Directive	2006/692/EC
	EU02	ELV Directive	2005/673/EC
	EU03	67/548/EEC [ANNEX I CMR-Cat1,2]	2004/73/EC
	EU04	76/769/EEC [Except 67/548/EEC ANNEX I CMR-Cat1,2]	2007/51/EC
	EU05	REACH SVHC	2008/10/28
	Substances do not directly mean legally regulated. It depends on use and other conditions. For more information please refer to "How to make JAMP MSDSplus".		

These data are offered in good faith as typical values and not as product specifications. They are believed accurate as of the date of this Material Safety Data Sheet based on a review of current composition and information supplied by vendors. No warranty,

**Dow Corning Toray Co., Ltd.
Material Safety Data Sheet****'TORAY'**

Dow Corning Toray Co., Ltd.

Revision Date: 2009/11/20
MSDS No.: 02576660**DOW CORNING TORAY DY 32-1000 U**

either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. This Product has been developed and manufactured for general industrial use. For medical use, or other uses where safety considerations may be required, you must in advance test and review the safety of your intended application. Moreover, this Product is not for human implant nor human injection, nor use for applications which may present risk of accumulating inside human bodies.

***** This is the last page. *****