

MATERIAL SAFETY DATA SHEET

Section 1: Identity and Manufacturer's Information

Manufacturer's Name	Miyaki Co., Ltd.
Head Office	1-2-23-1105 Otemon Chuoku Fukuoka 810-0074 Japan
P h o n e	81-92-713-0001 F A X 81-92-741-8606
Laboratory	1341 Ueki Suemachi Kasuyagun Fukuoka 811-2112 Japan
P h o n e	81-92-937-3008 F A X 81-92-931-8081
U R L	www.miyaki.com E-Mail info@miyaki.com

Section 2: Product Identification

Product Name : <i>NEWTON</i>
MSDS Number : C-011
Date of Prepared : 10/03/2007
Classification of a single product and a mixture : Mixture
General Name : Silicone solution
An ingredient and a content : POLYALKYLALKOXYSILOXANE, POLYALKYLSILOXANE, CYCLIC POLYALKYLSILOXANE, DIALKYL TIN COMPOUND, SILANE COUPLING AGENT, ANTISEPTICS, ETHANOL (14%)
CAS No. : 64-17-5 (ETHANOL)
The U.N. classification and the U.N. number : Class-3.2:1170 (ETHANOL)

Section 3: Hazardous Ingredients

The name of a classification : An inflammable liquid. Acute toxicity substance
Danger : Ignition and explosion are dangerous.
Detrimental nature : Damage may be healthily done by suction of aerosol mist and solvent smell. There is a possibility of causing organic-solvent poisoning. This product reacts with water and acid, and an alkali compound (hydrolysis), and generates the following compounds. (Methanol)
When an eye and membrane are touched:Those with the possibility which shows irritation.
When it inhales : Those with the possibility which shows irritation in a respiratory-organs system. Comparatively low level toxicity.
When the skin is touched:Those with the possibility which shows irritation.
Ecology influence : Toxicity is in an aquatic life living thing.

Section 4: First-Aid Measure

When it goes into an eye : It washes 15 minutes or more with a lot of pure running water immediately. Seek medical treatment.
When it adheres to the skin :After wiping off with the dry cloth so on the part which touched is flushed with a lot of soapsuds.
When it drinks : The thing which remained into the mouth is removed and gives a lot of water or milk. When a victim does not have consciousness, don't give anything from a mouth.
When it inhales : It gargles with a lot of water.

Section 5: Fire-Fighting Measure

The fire-extinguishing method :	• This product is an inflammable liquid.
	• A watch zone is set up.
	• A suitable protection implement (heat-resistant clothes) is worn.
	• An inflammable thing is quickly removed from the circumference.
	• Fire-extinguishing activities are performed from the windward.
	• The fire is extinguished using a fire-extinguishing agent.
	• Moving a container immediately in a safe place in case of a surrounding fire, an impossible place is watering cooling therefore, a temperature rise of a container is prevented.
Fire-extinguishing agent : Powder, carbon dioxide, an alcoholic [-proof] bubble	

Section 6: Accidental Release Measure

•The circumference is surrounded with a rope etc. And entry of people is forbidden.
•In an indoor case, it ventilates enough.
•The thing used as the neighboring source of ignition is removed promptly.
In the case of work, a suitable protection implement (rubber or a vinyl glove, a protection mask, an apron, goggles) is worn.
•When influence may be done to a citizen, a related government office and a supplier are contacted.
•When the leakage is little, after making a towel etc. absorb, in being abundant in a container, in it, the surroundings are enclosed with sand, the ground, etc., and it prevents an outflow in it, and collects as much as possible in it.
•it flows into a sewer, river ocean space, etc. and bends and needs - it is careful
•The rule of an area is followed when it reveals underwater.

Section 7: Handling and Storage

Handling:

- During handling work, it is fire strict prohibition.
- It is dealt with in a well ventilated place.
- In the bad place of ventilation, prepare sufficient partial exhaust, and work, wearing a suitable protection implement (rubber or a vinyl glove, a protection mask, an apron, goggles, rubber boot shoes).
- DO NOT SPRAY.
- The measure against static electricity is implemented.
- After work should make restroom, gargling.

Storage:

- Direct rays are intercepted, sealed and kept in normal temperature.
- Fire strict prohibition.
- A storage container covers and keeps it in an airy cool place.
- Keep out of reach of children.

Section 8: Exposure Prevention Equipment

Management Concentration : TLV-TWA(skin):1000ppm (AGCIH) (ethanol)

- The partial exhaust is prepared.
- eye-washing equipment and a safe shower are prepared
- Protection of an eye: Wear protection glasses.
- Protection of the skin: Wear the glove of a material with which the organic solvent-proof or chemicals does not permeate.
- Protection of a respiratory-organs system: Wear the gas mask for organic solvents.
A ventilation mask is worn in the sealed place.

Section 9: Physical / Chemical Characteristics

Appearance/state : Clear transparent volatility liquid.

Specific gravity (density) : 0.95(25°C)

Odor: Solvent-like smell

Boiling Point: 78.5°C(Ethanol)

Vapor Pressure: 44mmHg/20°C(Ethanol)

Solubility : It is not mixed with water.

Section 10: Stability and Reactivity

Flash point : 16°C above

Auto Ignition Temperature: 371~427°C(Ethanol)

Flammability Limits in Air % by Volume : UEL 19% LEL 3.5%(Ethanol)

Explosion limit : Un-measuring

Oxidization Property : non- oxidative

Ignition point : non-ignitable

Stability, reactivity : Stable in the usual handling.

Section 11: Toxicological Information

A skin corrosive : With no knowledge.

Eye stimulation : Stimulation may be shown.

Acute toxicity : LC50 : 20,000ppm/10H (Rat) (Ethanol)

LD50 : 7,500mg/kg(mus) (Ethanol)

Chronic toxicity : No data

Aerosol mist and the smell of a solvent may do damage healthily.

Section 12: Ecological Information

- Since there is a possibility of affecting environment, in the cases, such as disclosure and abandonment, be careful of handling.
- Cope with it so that especially a product and washing water flow directly neither to the ground, a river nor a drain.
- Decomposition nature : With no data.
- Accumulation nature : With no data.
- Aquatic life living thing toxicity : With no data.
- Do not pass with a river, a sewer, etc.

Section 13: Disposal Consideration

- Wastes, such as an abolition paint and a container, process by carrying out the industrial waste treatment company and consignment contract which obtained permission.
- The drainage which washed a container, apparatus equipment, etc. is passed as it is neither to the ground nor a drain.
- Waste generated by drainage processing, incineration, etc. is also processed according to the law with which processing of waste and cleaning are related, and a related regulation, or it commissions.

Section 14: Transport Information	
Common matter :	<ul style="list-style-type: none"> •Fire strict prohibition •On the occasion of conveyance, it confirms that there is no leak in a container, it loads so that there may not be a fall and fall damage, and prevention of collapse of cargo piles is ensured. •The publication of notes on handling and storage is followed. •When it corresponds to Fire Service Law, labor security and hygiene law, and a poison highly poisonous substance method, the transportation method set to each applicable law is followed. •Fire and direct rays are avoided. •Fire Service Law It applies to the first oil of the 4th kind. (Japanese law)
Marine transportation :	The place set to Law for Safety of Vessels is followed.
Air transportation :	The place set to the Aviation Act is followed.
The U.N. classification and the U.N. number :	Class-3.2: 1170 (Ethanol)
Packing Group:	II
Section 15: Regulatory Information	
Fire Service Law :	An inflammable liquid. It applies to the alcohol of the 4th kind. (Japanese law)
PRTR :	It does not correspond.
Labor security and hygiene law :	Quality of the notice subject of a safe health method (10~20%) (Ethanol)
An organic rule :	Organic-solvent poisoning prevention rule The 2nd sort
Law for Safety of Vessels :	Inflammable liquids: Middle flash point inflammability liquid
Aviation law :	Inflammable liquids
Wastes Disposal and Public Cleaning Law :	It is management industrial waste specially. Waste oil
Section 16: Other Information	
The reference of written contents :	Up to a guarantee-of-quality room
Based on the information acquired at present, about the danger detrimental nature of a product, since the above information is not enough, mind.	
Especially in special handling, notes need consideration for the usual handling.	
Values, such as a content and physical character, should be reference values among written contents, and since it is not a guarantee value, mind.	