

Safety Data Sheet PP1-SBTI Date of issue: 10/06/2015 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form : Mixture : Liquid Physical state Product name : SiBRID® TI Product code : PP1-SBTI

COPOLY(ETHERIMIDE/DIMETHYLSILOXANE); POLY(DIMETHYLSILOXANE)ETHERIMIDE Synonyms

SOLUTION

Chemical family : ORGANOSILOXANE

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Chemical intermediate

For research and industrial use only

Details of the supplier of the safety data sheet

GELEST. INC.

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USA

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Emergency telephone number

: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International) **Emergency number**

SECTION 2: Hazards identification

Classification of the substance or mixture

GHS-US classification

Flam. Liq. 4 H227 Skin Irrit. 2 H315 Eye Irrit. 2A H319 Repr. 1B H360 STOT SE 3 H335

Full text of H-phrases: see section 16

Label elements 2.2.

GHS-US labeling

Hazard pictograms (GHS-US)





GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) H227 - Combustible liquid H315 - Causes skin irritation

H319 - Causes serious eye irritation H335 - May cause respiratory irritation H360 - May damage fertility or the unborn child

Precautionary statements (GHS-US) P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308+P313 - If exposed or concerned: Get medical advice/attention P210 - Keep away from heat, open flames, sparks. - No smoking

P261 - Avoid breathing vapors

P264 - Wash hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P302+P352 - If on skin: Wash with plenty of soap and water P332+P313 - If skin irritation occurs: Get medical advice/attention

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical advice/attention

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P312 - Call a doctor if you feel unwell

P321 - Specific treatment (see first aid instructions on this label)
P362+P364 - Take off contaminated clothing and wash it before reuse

P370+P378 - In case of fire: Use water spray, foam, carbon dioxide, dry chemical to extinguish

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P403+P235 - Keep in a cool place

P405 - Store locked up

P501 - Dispose of contents/container to licensed waste disposal facility.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
N-Methylpyrrolidone	(CAS No) 872-50-4	80 - 85	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 1B, H360 STOT SE 3, H335
(Dimethylsiloxane)(etherimide) copolymer	(CAS No) 99904-16-2	15 - 20	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek

medical advice immediately (show the label where possible). If possible show this sheet; if not

available show packaging or label.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel

unwell, seek medical advice.

First-aid measures after skin contact : Wash with plenty of soap and water. Get medical advice/attention.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : May damage fertility or the unborn child.

Symptoms/injuries after inhalation : May cause drowsiness or dizziness. May cause respiratory irritation.

Symptoms/injuries after skin contact : May cause skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May be harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media : Do not use straight streams.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid. Irritating fumes and organic acid vapors may develop when material is

exposed to elevated temperatures or open flame.

5.3. Advice for firefighters

Firefighting instructions : Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Avoid all eye and skin contact and do not breathe vapor and mist.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment as described in Section 8.

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Emergency procedures : Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection". Equip

cleanup crew with proper protection. Do not attempt to take action without suitable protective

equipment.

6.2. **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up 6.3.

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or

shovel spills into appropriate container for disposal. Use only non-sparking tools.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Additional hazards when processed : Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Precautions for safe handling Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Avoid all eye and skin contact and do not breathe vapor and mist. Ground/bond container and receiving equipment. Use only outdoors or in a well-ventilated area.

Use only non-sparking tools.

Wash hands and other exposed areas with mild soap and water before eating, drinking or Hygiene measures

smoking and when leaving work. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Technical measures Use explosion-proof electrical equipment.

Storage conditions Keep container tightly closed. Keep in a cool place. Store locked up. Store in sealed containers

below 30°C.

Incompatible materials Oxidizing agent.

Storage area Store in a well-ventilated place. Store away from heat.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

Control parameters

N-Methylpyrrolidone (872-50	-4)	
USA ACGIH	ACGIH TWA (mg/m³)	400 mg/m ³

Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.

Personal protective equipment : Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be

available in the immediate vicinity of any potential exposure.

Hand protection : Neoprene or nitrile rubber gloves.

Chemical goggles. Contact lenses should not be worn. Eve protection

Skin and body protection Wear suitable protective clothing

Respiratory protection Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended. NIOSH-certified combination organic vapor - amine gas (brown cartridge)

respirator.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties 9.1.

Physical state : Liquid Appearance : Liquid.

: Light gold-amber. Color

Odor : Mild.

Odor threshold : No data available Refractive index No data available No data available Relative evaporation rate (butyl acetate=1) : No data available

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Melting point: No data availableFreezing point: No data availableBoiling point: 202 °C initial

Flash point : 86 °C

Auto-ignition temperature : 346 °C (N-Methylpyrrolidone)

Decomposition temperature : No data available
Flammability (solid, gas) : Combustible liquid
Vapor pressure : No data available

Relative vapor density at 20 °C : 3.4 (N-Methylpyrrolidone)

Relative density : 1.1
VOC content : >80 %

Solubility : Insoluble in water. Log Pow No data available No data available Log Kow Viscosity, kinematic : No data available No data available Viscosity, dynamic Explosive properties No data available No data available Oxidizing properties **Explosion limits** : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable in sealed containers.

10.3. Possibility of hazardous reactions

If processing entails drying, insure that an explosion proof oven is used. Do not evaporate solvent in the presence of flame or sparks.

10.4. Conditions to avoid

Heat. Open flame. Sparks.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Organic acid vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

N-Methylpyrrolidone (872-50-4)		
LD50 oral rat	4150 mg/kg	
LD50 dermal rabbit	8000 mg/kg	
LC50 inhalation rat (mg/l)	> 5.1 mg/l/4h	
ATE US (oral)	4150.000 mg/kg body weight	
ATE US (dermal)	8000.000 mg/kg body weight	

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : May damage fertility or the unborn child.

N-Methylpyrrolidone: Evidence of adverse effects on sexual function and fertility, and/or on

development, based on animal experiments.

Specific target organ toxicity (single exposure)

: May cause respiratory irritation.

Specific target organ toxicity (repeated

exposure)

: Not classified

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Aspiration hazard : Not classified

Symptoms/injuries after inhalation : May cause drowsiness or dizziness. May cause respiratory irritation.

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms/injuries after eye contact : Causes serious eye irritation. Symptoms/injuries after ingestion : May be harmful if swallowed.

Reason for classification : Expert judgment

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

Persistence and degradability 12.2.

No additional information available

Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

12.5. Other adverse effects

Other adverse effects : This substance may be hazardous to the environment.

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

Waste treatment methods

Sewage disposal recommendations Do not dispose of waste into sewer.

Waste disposal recommendations Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to licensed waste disposal facility.

Ecology - waste materials Avoid release to the environment.

SECTION 14: Transport information

14.1. **UN** number

DOT NA no. NA1993

14.2. **UN** proper shipping name

Proper Shipping Name (DOT) : Combustible liquid, n.o.s.

(POLY(DIMETHYLSILOXANE)ETHERIMIDE SOLUTION)

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

DOT Symbols : D - Proper shipping name for domestic use only, or to and from Canada, G - Identifies PSN

requiring a technical name

Packing group (DOT) : III - Minor Danger

DOT Packaging Exceptions (49 CFR 173.xxx) : 150 DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 241

14.3. Additional information

Other information : No supplementary information available.

This product is Combustible as defined by the US Department of Transportation (DOT). It is Special transport precautions

regulated for transport in the US in container > 119 gallons. The product is not regulated for

transport by the IATA, ADR/RID, ADNR or the IMDG regulations.

Transport by sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

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SECTION 15: Regulatory information

15.1. US Federal regulations

(Dimethylsiloxane)(etherimide) copolymer (99904-16-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

N-Methylpyrrolidone (872-50-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

(Dimethylsiloxane)(etherimide) copolymer (99904-16-2)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Korean ECL (Existing Chemicals List)

N-Methylpyrrolidone (872-50-4)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on Turkish inventory of chemical

15.3. US State regulations

SiBRID® TI()		
אטואסוכ וו()		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	

(Dimethylsiloxane)(etherimide) copolymer (99904-16-2)

U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	

N-Methylpyrrolidone (872-50-4)

	* 1			
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	

SECTION 16: Other information

Abbreviations and acronyms

: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

Full text of H-phrases::

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
Repr. 1B	Reproductive toxicity Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3

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H227	Combustible liquid
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child

HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 2 Moderate Hazard Physical : 0 Minimal Hazard

Prepared by safety and environmental affairs.

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SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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