

Safety Data Sheet SIB1878.0 Date of issue: 01/08/2016 Version: 1.0

Enabling Your Technology	
SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking
1.1. Product identifier	
	: Substance
	: Solid
•	N,N'-BIS(TRIMETHYLSILYL)UREA
Product code	SIB1878.0
Formula	: C7H20N2OSi2
Synonyms	: BSU; 1,3-BIS(TRIMETHYLSILYL)UREA
Chemical family	ORGANOSILANE
1.2. Relevant identified uses of the substa	nce or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: Chemical intermediate
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety da	ata sheet
GELEST, INC. 11 East Steel Road Morrisville, PA 19067	
USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AN	4 - 5:30 PM EST
info@gelest.com - www.gelest.com	
GELEST INC.	
Fritz-Klatte-Strasse 8	
65933 Frankfurt	
Germany	
T +49 (0) 69 3535106-500 - F +49 (0) 69 3535106	-501 - (M-F): 8:00 AM - 4:00 PM
info@gelestde.com - www.gelestde.com	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2: Hazards identification	
2.1. Classification of the substance or mix	tture
Classification according to Regulation (EC) No	. 1272/2008 [CLP]
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity — Single exposure, C Respiratory tract irritation	Category 3, H335
Full text of H statements : see section 16	
Adverse physicochemical, human health and e	nvironmental effects
No additional information available	
2.2. Label elements	
Labelling according to Regulation (EC) No. 127	2/2008 [CLP]
Hazard pictograms (CLP)	
Signal word (CLD)	GHS07
,	: Warning
Hazard statements (CLP)	: H315 - Causes skin irritation. H319 - Causes serious eye irritation.
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N,N'-BIS(TRIMETHYLSILYL)UREA Safety Data Sheet

	H335 - May cause respiratory irritation.
Precautionary statements (CLP)	 P280 - Wear protective gloves/protective clothing/eye protection/face protection. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 - Call a doctor if you feel unwell.

2.3.	Other hazards			
No addi	ditional information available			

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Substance type	: Mono-constituent	
Name	: N,N'-BIS(TRIMETHYLSILYL)UREA	
CAS-No.	: 18297-63-7	
EC-No.	: 242-177-9	

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N,N'-Bis(trimethylsilyl)urea	(CAS-No.) 18297-63-7 (EC-No.) 242-177-9	95 - 100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of H-statements: see section 16

3.2. Mixtures	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measure	2S
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 person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash with plenty of 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/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: No information available.
4.3. Indication of any immediate me	edical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	25
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 th	
Fire hazard	: Irritating fumes and organic acid vapors may develop when material is exposed to water or
	open flame.
5.3. Advice for firefighters	
Firefighting instructions	: Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.
Print date: 12/04/2019	EN (English) SDS ID: SIB1878 0 2/7

Safety Data Sheet

SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective ed	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Wear protective equipment as described in Section 8.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notif	y authorities if product enters sewers or public waters.
6.3. Methods and material for containm	ent and cleaning up
For containment	 Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal.
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal	I protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe dust. Avoid dust formation. Provide local exhaust or general room ventilation to minimize exposure to dust.
Hygiene measures	: Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, include	ing any incompatibilities
Storage conditions	: Keep container tightly closed. Store locked up.
Incompatible materials	: Acids. alcohols. Oxidizing agent. Peroxides.
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/pers	sonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering 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

Eye protection:

Chemical goggles. Contact lenses should not be worn

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			
9.1. Information on basic p	hysical and chemical properties		
Physical state	: Solid		
Appearance	: Solid.		
Print date: 12/04/2019	EN (English)	SDS ID: SIB1878.0	3/7

N,N'-BIS(TRIMETHYLSILYL)UREA Safety Data Sheet

Molecular mass	: 204.42 g/mol
Colour	: White.
Odour	: Mild.
Odour threshold	: No data available
Refractive index	: No additional information available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 222 - 224 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 65 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: < 1 mm Hg
Relative vapour density at 20 °C	: >1
Relative density	: <1
% Volatiles	: < 3 %
Solubility	: Insoluble in water. Reacts with water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivit	ty
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable in sealed containers stored under nitrog	yen.
10.3. Possibility of hazardous reactions	
	g hexamethyldisiloxane (flammable) and UREA.
10.4. Conditions to avoid Heat. Sparks. Open flame. Degrades at tempe	pratures above 80°C
10.5. Incompatible materials	
Acids. alcohols. Oxidizing agent. Peroxides.	
10.6. Hazardous decomposition produc	
Hexamethyldisiloxane. Organic acid vapors. U	rea.
SECTION 11: Toxicological informa	ation
11.1. Information on toxicological effect	
Acute toxicity	: Not classified
N,N'-Bis(trimethylsilyl)urea (18297-63-7)	
LC50 inhalation rat (mg/l)	> 2.2 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.

N,N'-BIS(TRIMETHYLSILYL)UREA Safety Data Sheet

14.3. Transport hazard class(es) ADR Transport hazard class(es) (ADR) IMDG Transport hazard class(es) (IMDG) IATA IATA	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable		
UN-No. (IATA) UN-No. (ADN) UN-No. (RID) 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) 14.3. Transport hazard class(es) ADR Transport hazard class(es) (ADR) IMDG Transport hazard class(es) (IMDG)	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable		
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UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	Not applicable		
UN-No. (IATA) UN-No. (ADN)	Not applicable		
UN-No. (IATA)			
	Nut applicable		
UN-No. (IMDG)			
	Not applicable		
UN-No. (ADR)	Not applicable		
14.1. UN number			
In accordance with ADR / RID / IMDG / IATA / ADI	J		
14.1. UN number			
SECTION 14: Transport information			
Ecology - waste materials	Avoid release to the enviro	onment.	
requer actaging disposal recommendations		iner to licensed waste disposal facility.	
Sewage disposal recommendations Product/Packaging disposal recommendations	Do not dispose of waste in May be incinerated. Dispo	to sewer. se in a safe manner in accordance with local/national regulations.	
13.1. Waste treatment methods	Do not dianage of waster	to cover	
SECTION 13: Disposal considerations			
12.6. Other adverse effects Other adverse effects	This substance may be be	zardous to the environment.	
No additional information available			
12.5. Results of PBT and vPvB assessment			
No additional information available			
12.4. Mobility in soil			
No additional information available			
12.3. Bioaccumulative potential			
No additional information available			
12.2. Persistence and degradability			
	NUL CIASSIIIEU		
Acute aquatic toxicity Chronic aquatic toxicity	Not classified Not classified		
12.1. Toxicity	Not classified		
SECTION 12: Ecological information			
	Expert judgment		
Reason for classification	Expert judgment		
Symptoms/effects after eye contact Symptoms/effects after ingestion	Causes serious eye irritati No information available.		
Symptoms/effects after skin contact	Causes skin irritation.		
	May cause respiratory irrit	ation.	
Symptoms/effects after inhalation	Not classified		
Aspiration hazard Symptoms/effects after inhalation	Not classified		

Safety Data Sheet

ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
- Overland transport	
the second se	

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport Not applicable

Transport in bulk according to Annex II of Marpol and the IBC Code 14.7.

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. **EU-Regulations**

No REACH Annex XVII restrictions

N,N'-BIS(TRIMETHYLSILYL)UREA is not on the REACH Candidate List

N,N'-BIS(TRIMETHYLSILYL)UREA is not on the REACH Annex XIV List

N,N'-BIS(TRIMETHYLSILYL)UREA is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

N,N'-BIS(TRIMETHYLSILYL)UREA is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

% Volatiles : < 3 %

National regulations 15.1.2.

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed

Safety Data Sheet

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Classification remarks	: Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

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; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

Other information

: Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

Serious eye damage/eye irritation, Category 2
Skin corrosion/irritation, Category 2
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

SDS EU (REACH Annex II) - Custom

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