

Safety Data Sheet SIH5842.5 Date of issue: 10/30/2014 Version: 1.0

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

Product identifier

Product form : Substance Physical state : Liquid

Substance name : HEPTAMETHYLCYCLOTETRASILOXANE, tech-95

Product code SIH5842.5 : C7H22O4Si4 Formula Synonyms : D3D'

Chemical family : ORGANOSILOXANE

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

Use of the substance/mixture : Chemical intermediate

For research 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

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

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification (GHS-US)

Flam. Liq. 3 H226

Full text of H-phrases: see section 16

Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS02

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H226 - Flammable liquid and vapor

Precautionary statements (GHS-US) P280 - Wear protective gloves/protective clothing/eye protection/face protection

P210 - Keep away from heat, open flames, sparks. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

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

extinguish

P403+P235 - Store in a well-ventilated place. Keep cool

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

Other hazards

No additional information available

Unknown acute toxicity (GHS-US)

No data available

SDS ID: SIH5842.5 10/30/2014 EN (English US) Page 1

Safety Data Sheet

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance type : Mono-constituent

Name : HEPTAMETHYLCYCLOTETRASILOXANE, tech-95

CAS No : 15721-05-8

	Name	Product identifier	%	Classification (GHS-US)
ſ	Heptamethylcyclotetrasiloxane	(CAS No) 15721-05-8	> 95	Flam. Liq. 3, H226

3.2. Mixture

Not applicable

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 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.

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 after inhalation : No information available. Symptoms/injuries after skin contact : May cause skin irritation. Symptoms/injuries after eye contact : May cause eye irritation. Symptoms/injuries after ingestion : No information available.

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. Water fog. Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapor. 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 or fog for cooling exposed containers. 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

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

10/30/2014 EN (English US) SDS ID: **SIH5842.5** 2/6

Safety Data Sheet

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Keep away from heat, open flames, sparks. - No smoking.

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapo

: Avoid all eye and skin contact and do not breathe vapor and mist. Provide good ventilation in process area to prevent accumulation of vapors. Containers must be properly grounded before beginning transfer. Take precautionary measures against static discharge. Use only non-

sparking tools

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

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

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Keep container tightly closed.

Incompatible materials : Alkalis. Metal salts. Oxidizing agent. Precious metals. 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

8.1. Control parameters

No additional information available

8.2. 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.

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 organic vapor (black cartridge) respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear liquid.

Molecular mass : 282.59 g/mol

Color : No data available

Odor : Mild.

Odor threshold : No data available

Refractive index : 1.3965

pH : No data available Relative evaporation rate (butyl acetate=1) : No data available

Melting point : < -27 °C

Freezing point : No data available

Boiling point : $165 \, ^{\circ}\text{C}$ Flash point : $46 \, ^{\circ}\text{C}$

Auto-ignition temperature : No data available Decomposition temperature : No data available

Flammability (solid, gas) : Flammable liquid and vapor

Vapor pressure : < 5 mm Hg @ 20°C

Relative vapor density at 20 °C : > 1
Relative density : 0.958

Solubility : Insoluble in 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

10/30/2014 EN (English US) SDS ID: **SIH5842.5** 3/6

Safety Data Sheet

Oxidizing properties : No data available : No data available Explosive limits

Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity

No additional information available

Chemical stability

Stable in sealed containers stored under a dry inert atmosphere.

Possibility of hazardous reactions

The product can generate small amounts of hydrogen when exposed to alkalis and protic materials such as water and alcohol in combination with metal salts such as aluminum chloride or precious metals such as platinum.

Conditions to avoid

Heat. Open flame. Sparks.

Incompatible materials

Alkalis. Metal salts. Oxidizing agent. Precious metals.

Hazardous decomposition products

Hydrogen. Formaldehyde. Carbon monoxide. Organic acid vapors. Silicon dioxide.

SECTION 11: Toxicological information

Information on toxicological effects

: Not classified Acute toxicity Skin corrosion/irritation : Not classified : Not classified Serious eye damage/irritation Not classified Respiratory or skin sensitization Germ cell mutagenicity Not classified Carcinogenicity Not classified Reproductive toxicity Not classified

Specific target organ toxicity (single exposure) Not classified Not classified Specific target organ toxicity (repeated

exposure)

Aspiration hazard

: Not classified

Symptoms/injuries after inhalation : No information available. Symptoms/injuries after skin contact : May cause skin irritation. Symptoms/injuries after eye contact : May cause eye irritation. Symptoms/injuries after ingestion : No information available.

SECTION 12: Ecological information

Toxicity

No additional information available

Persistence and degradability

No additional information available

12.3. **Bioaccumulative potential**

No additional information available

Mobility in soil

No additional information available

Other adverse effects

: No additional information available Effect on ozone layer

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

SECTION 13: Disposal considerations

Waste treatment methods

Waste disposal recommendations : Incinerate. 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.

10/30/2014 SDS ID: SIH5842.5 EN (English US) 4/6

Safety Data Sheet

SECTION 14: Transport information

14.1. UN number

UN-No.(DOT) : 1993 DOT NA no. UN1993

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Flammable liquids, n.o.s.

(HEPTAMETHYLCYCLOTETRASILOXANE)

Department of Transportation (DOT) Hazard

d : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Classes
Hazard labels (DOT) : 3 - Flammable liquid

3

DOT Symbols : 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) : 242

14.3. Additional information

Other information : No supplementary information available.

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)

SECTION 15: Regulatory information

15.1. US Federal regulations

HEPTAMETHYLCYCLOTETRASILOXANE, tech-95 (15721-05-8)

TSCA Exemption/Exclusion

CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the

exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r)

is not permitted in the United States.

Heptamethylcyclotetrasiloxane (15721-05-8)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

No additional information available

15.3. US State regulations

HEPTAMETHYLCYCLOTETRASILOXANE, tech-95(15721-05-8)		
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	

Heptamethylcyclotetrasiloxane (15721-05-8)

rieptamentyloyoloteauonoxane (10721 00 0)				
U.S California -	U.S California -	U.S California -	U.S California -	No significance risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	

10/30/2014 EN (English US) SDS ID: **SIH5842.5** 5/6

Safety Data Sheet

Heptamethylcyclotetrasiloxane (15721-05-8)				
No	No	No	No	

SECTION 16: Other information

Full text of H-phrases::

Flam. Liq. 3	Flammable liquids Category 3
H226	Flammable liquid and vapor

HMIS III Rating

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

Flammability : 3 Serious Hazard
Physical : 1 Slight Hazard

Date of issue: 10/30/2014 Version: 1.0

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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10/30/2014 EN (English US) SDS ID: **SIH5842.5** 6/6