




[Hexakis\(ethylamino\)disilane](#)

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Linear Formula	(C <sub>2</sub> H <sub>5</sub> NH) <sub>6</sub> Si <sub>2</sub>
Pubchem CID	11336203
MDL Number	MFCD28411848
EC No.	N/A
IUPAC Name	N-[bis(ethylamino)-[tris(ethylamino)silyl]silyl]ethanamine
SMILES	CCN[Si](NCC)(NCC)[Si](NCC)(NCC)NCC
Inchi Identifier	InChI=1S/C12H36N6Si2/c1-7-13-19(14-8-2,15-9-3)20(16-10-4,17-11-5)18-12-6/h13-18H,7-12H2,1-6H3
Inchi Key	WMAAIGILTZEOHE-UHFFFAOYSA-N

Signal Word	Danger
Hazard Statements	H225-H302+H312+H332-H314
Hazard Codes	N/A
Risk Codes	N/A
Safety Statements	N/A
Transport Information	UN2924 3/pg ii
WGK Germany	1

GHS Pictograms	<p><a href="#">GHS05 Corrosive</a></p>  <p><a href="#">GHS07 Exclamation Point</a></p>  <p><a href="#">GHS02 Flame</a></p> 
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## SAFETY DATA SHEET

Date Accessed: 04/16/2024

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## SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #532980-53-3

**Relevant identified uses of the substance:**  
Scientific research and development

Supplier details:  
American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351

Emergency telephone number:  
Domestic, North America +1 800-424-9300  
International +1 703-527-3887

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## SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture  
GHS02 Flame  
Flam. Liq. 2 H225 Highly flammable liquid and vapor.  
GHS05 Corrosion  
Skin Corr. 1A H314 Causes severe skin burns and eye damage.  
Eye Dam. 1 H318 Causes serious eye damage.  
GHS07  
Acute Tox. 4 H302 Harmful if swallowed.  
Acute Tox. 4 H312 Harmful in contact with skin.  
Acute Tox. 4 H332 Harmful if inhaled.  
GHS label elements  
The substance is classified and labeled according to the Globally Harmonized System (GHS).



Hazard pictograms  
GHS02d GHS05 GHS07  
Signal word Danger  
Hazard statements  
H225 Highly flammable liquid and vapor.  
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.  
H314 Causes severe skin burns and eye damage.  
Precautionary statements  
P231+P232 Handle under inert gas. Protect from moisture.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

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

P422 Store contents under inert gas.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)

3

0

0

W-

Health = 3

Fire = 0

Reactivity = 0

The substance demonstrates unusual reactivity with water.

HMIS-ratings (scale 0 - 4)

HEALTH

FIRE

REACTIVITY

3

0

0

Health = 3

Fire = 0

Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: N/A

vPvB: N/A

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

CAS # / Substance Name

532980-53-3 Hexakis(ethylamino)disilane

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## SECTION 4. FIRST AID MEASURES

Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several

hours; therefore medical observation for at least 48 hours  
after the accident.  
If inhaled:  
Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.  
In case of skin contact: Immediately wash with soap and water; rinse thoroughly.  
In case of eye contact: Rinse opened eye for several minutes under running water. Consult a physician.  
If swallowed:  
Immediately call a doctor.  
Drink copious amounts of water and provide fresh air.  
Immediately call a doctor.  
Information for doctor:  
Most important symptoms and effects, both acute and delayed:  
No data available  
Indication of any immediate medical attention and special treatment needed  
No data available

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## **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media  
Suitable extinguishing agents:  
Sand. Do not use water.  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.  
For safety reasons unsuitable extinguishing agents:  
Water with full jet  
Special hazards arising from the substance or mixture  
No data available  
Advice for firefighters  
Protective equipment: Mouth respiratory protective device.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures  
Use personal protective equipment. Keep unprotected persons away.  
Environmental precautions: Do not allow to enter sewers/ surface or groundwater.  
Methods and materials for containment and cleanup:  
Absorb with liquid-binding material (sand, diatomite,

acid binders, universal binders, sawdust).  
Use neutralizing agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents  
Reference to other sections  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

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## **SECTION 7. HANDLING AND STORAGE**

Handling: Handle under inert gas.  
Precautions for safe handling  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Information about protection against explosions and fires:  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Conditions for safe storage, including any incompatibilities: Store contents under inert gas.  
Requirements to be met by storerooms and receptacles: Store in a cool location.  
Information about storage in one common storage facility: Not required.  
Further information about storage conditions:  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.  
Specific end use(s) No data available

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Additional information about design of technical systems: No further data; see item 7.  
Control parameters  
Components with limit values that require monitoring at the workplace: Not required.  
Additional information: The lists that were valid during the creation were used as basis.  
Exposure controls  
Personal protective equipment:  
General protective and hygienic measures:  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.

Avoid contact with the eyes.  
Avoid contact with the eyes and skin.  
Breathing equipment:  
In case of brief exposure or low pollution use  
respiratory filter device. In case of intensive or longer  
exposure use  
respiratory protective device that is independent of  
circulating air.  
Protection of hands:  
SProtective gloves  
The glove material has to be impermeable and  
resistant to the product/ the substance/ the  
preparation.  
Due to missing tests no recommendation to the glove  
material can be given for the product/ the preparation/  
the  
chemical mixture.  
Selection of the glove material on consideration of the  
penetration times, rates of diffusion and the  
degradation  
Material of gloves  
The selection of the suitable gloves does not only  
depend on the material, but also on further marks of  
quality and  
varies from manufacturer to manufacturer.  
Penetration time of glove material  
The exact break through time has to be found out by  
the manufacturer of the protective gloves and has to  
be  
observed.  
Eye protection:  
RTightly sealed goggles

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties  
Appearance:  
Form: Liquid  
Color: Colorless  
Odor: undistinguishable  
Odor threshold: No data available.  
pH: No data available.  
Melting point/Melting range: -7 °C (19 °F)  
Boiling point/Boiling range: 257 °C (495 °F)  
Flash point: N/A  
Flammability (solid, gas): N/A  
Ignition temperature:  
Decomposition temperature: No data available.  
Autoignition: No data available.  
Danger of explosion: No data available.  
Explosion limits:  
Lower: No data available.

Upper: No data available.  
Vapor pressure: No data available.  
Density at 20 °C (68 °F): 1 g/cm<sup>3</sup> (8.345 lbs/gal)  
Relative density No data available.  
Vapor density No data available.  
Evaporation rate No data available.  
Solubility in / Miscibility with  
Water: Not miscible or difficult to mix.  
Partition coefficient (n-octanol/water): No data available.  
Viscosity:  
Dynamic: No data available.  
Kinematic: No data available.  
Solvent content:  
Organic solvents: 0.0 %  
VOC content: 0.0 g/l / 0.00 lb/gl  
Solids content: 100.0 %  
Other information No data available

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## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity No data available  
Chemical stability  
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.  
Possibility of hazardous reactions No dangerous reactions known.  
Conditions to avoid No data available  
Incompatible materials: No data available  
Hazardous decomposition products: No dangerous decomposition products known.

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects  
Acute toxicity:  
Primary irritant effect:  
on the skin: Strong caustic effect on skin and mucous membranes.  
on the eye:  
Strong caustic effect.  
Strong irritant with the danger of severe eye injury.  
Sensitization: No sensitizing effects known.  
Additional toxicological information:  
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.  
Carcinogenic categories  
IARC (International Agency for Research on Cancer)

Substance is not listed.  
NTP (National Toxicology Program)  
Substance is not listed.  
OSHA-Ca (Occupational Safety & Health  
Administration)  
Substance is not listed.

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## **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity  
Aquatic toxicity: No data available  
Persistence and degradability No data available  
Behavior in environmental systems:  
Bioaccumulative potential No data available  
Mobility in soil No data available  
Additional ecological information:  
Water hazard class 1 (Self-assessment): slightly  
hazardous for water  
Do not allow undiluted product or large quantities of it  
to reach groundwater, water courses, or sewage  
systems.  
Must not reach bodies of water or drainage ditch  
undiluted or unneutralized.  
Results of PBT and vPvB assessment  
PBT: N/A  
vPvB: N/A  
Other adverse effects No data available

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods  
Recommendation:  
Must not be disposed of together with household  
garbage. Do not allow product to enter drains, sewage  
systems, or other water courses system.  
Uncleaned packagings:  
Recommendation: Disposal must be made according  
to official regulations.

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## **SECTION 14. TRANSPORT INFORMATION**

UN-Number  
DOT, IMDG, IATA UN2924  
UN proper shipping name  
DOT, IATA Flammable liquids, corrosive, n.o.s.  
IMDG FLAMMABLE LIQUID, CORROSIVE, N.O.S.  
Transport hazard class(es)  
DOT  
Class 3 Flammable liquids



Label 3, 8  
IMDG  
Class 3 Flammable liquids  
Label 3/8  
IATA  
Class 3 Flammable liquids  
Label 3 (8)  
Packing group  
DOT, IMDG, IATA II  
Environmental hazards:  
Marine pollutant: No  
Special precautions for user Warning: Flammable liquids  
EMS Number: F-E,S-C  
Stowage Category B  
Stowage Code SW2 Clear of living quarters.  
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code N/A  
Transport/Additional information:  
DOT  
Quantity limitations On passenger aircraft/rail: 1 L  
On cargo aircraft only: 5 L  
IMDG  
Limited quantities (LQ) 0  
Excepted quantities (EQ) Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml  
UN "Model Regulation": UN 2924 FLAMMABLE LIQUIDS, CORROSIVE, N.O.S., 3 (8), II

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## **SECTION 15. REGULATORY INFORMATION**

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

Sara

Section 355 (extremely hazardous substances):

Substance is not listed.

Section 313 (Specific toxic chemical listings):

Substance is not listed.

TSCA (Toxic Substances Control Act):

Substance is not listed.

Proposition 65

Chemicals known to cause cancer:

Substance is not listed.

Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

Chemicals known to cause developmental toxicity:

Substance is not listed.  
Carcinogenic categories  
EPA (Environmental Protection Agency)  
Substance is not listed.  
TLV (Threshold Limit Value established by ACGIH)  
Substance is not listed.  
NIOSH-Ca (National Institute for Occupational Safety and Health)  
Substance is not listed.  
GHS label elements  
The substance is classified and labeled according to the Globally Harmonized System (GHS).  
Hazard pictograms  
GHS02 GHS05 GHS07  
Signal word Danger  
Hazard statements  
H225 Highly flammable liquid and vapor.  
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.  
H314 Causes severe skin burns and eye damage.  
Precautionary statements  
P231+P232 Handle under inert gas. Protect from moisture.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/  
shower.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P422 Store contents under inert gas.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.  
National regulations:  
Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.  
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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## **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties

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