

Safety Data Sheet P-18-58512

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Version: 1.1

Issue date: 08/04/2021 Revision date: 03/24/2022 Supersedes: 08/04/2021

0507		
	FION: 1. Product and company	/ Identification
1.1.	Product identifier	
Produc	ct form	: Mixture
Produc	ct name	: Helium Balance - Hexamethyldisiloxane 0.1ppm - 0.9%
Other r	means of identification	: Mixture of Hexamethyldisiloxane and Helium
1.2.	Relevant identified uses of the su	bstance or mixture and uses advised against
Use of	the substance/mixture	: Industrial use; Use as directed.
1.3.	Details of the supplier of the safet	y data sheet
		Linde Inc. 10 Riverview Drive Danbury, CT 06810-6268, USA www.lindeus.com Linde Inc. 1-844-44LINDE (1-844-445-4633)
1.4. -	Emergency telephone number ency number	: Onsite Emergency: 1-800-645-4633
		CHEMTREC, 24 hr/day 7 days/week — Within USA: 1-800-424-9300, Outside USA: 001-703-527-3887 (collect calls accepted, Contract 17729)
SEC1	FION 2: Hazard identification	
2.1.	Classification of the substance or	mixture
GHS-L	JS classification	
	Gas (Comp.) H280 asphyxiant SIAS	
2.2.	Label elements	
GHS U	IS labelling	
	d pictograms (GHS US)	: GHS04

2.3. Other hazards	
 Precautionary statements (GHS US) P202 - Do not handle until all safety precautions have been read and understood. P271+P403 - Use and store only outdoors or in a well-ventilated place. CGA-PG05 - Use a back flow preventive device in the piping. CGA-PG10 - Use only with equipment rated for cylinder pressure. CGA-PG12 - Do not open valve until connected to equipment prepared for use. CGA-PG06 - Close valve after each use and when empty. CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F). P304, P340, P313 - IF INHALED: Remove person to fresh air and keep comfortable f breathing. Get medical advice/attention. 	
Signal word (GHS US) : Warning Hazard statements (GHS US) : H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.	

EN (English)

SDS ID: P-18-58512

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Not applicable Section during firefighting Yeamethyldisitoxane (CAS-Na) 7440-09-7 99.1 - 99.99999 Section 4: First aid measures First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give atrificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a physician. If breathing is difficult, trained personnel should give oxygen. Call a physician. If breathing is difficult, trained personnel should give oxygen. Call a physician. If breathing is difficult, trained personnel should give oxygen. Call a physician. If breathing is difficult, trained personnel should give oxygen. Call a physician. If breathing is difficult, trained personnel should give oxygen. Call a physician. If breathing is difficult, trained personnel should give oxygen. Call a physician. If breathing is difficult, trained personnel should give oxygen. Call a physician. If breathing is difficult, trained personnel should give oxygen. Call a physician. If breathing is difficult, trained personnel should give oxygen. Call a physician. If breathing is difficult, trained personnel should give oxygen. Call a physician. If breathing is difficult, trained personnel should give oxygen. Call a physician. If breathing is difficult, trained personnel should give oxygen. Call a physician. If breathing is difficult, trained personnel should give oxygen. Call a physician. If breathing is difficult trained personnel should give oxygen. Call a physician. Call be exit, oxy and the physician and the provide a physician. Call be exit, oxy and the physician and physician. Call be exit, oxy and thy the physit oxin, the physician and physician. Call bea	1	Linde	This SDS conforms to Issue date: 08/04/2021	U.S. Code of Federal Regulation Revision date: 03/24/20	ons 29 CFR 1910.1200, Hazar 022 Supersedes: 08/04/2021	rd Communication. Version: 1.1
No data available SECTION 3: Composition/information on ingredients 3.1. Substances Name Product identifier Hailum (CAS+No.) 7440-59-7 Healium (CAS+No.) 107-46-0 Usametry/distloxane (CAS+No.) 107-46-0 SECTION 4: First aid measures (CAS+No.) 107-46-0 First-aid measures after inhalation : Remove to fresh air and keep at rest in a postion comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a physician. First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open ar away from the sebable to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologic Immediately. 4.2. Most Important symptoms and effects, both acute and delayed No additional information available 4.3. Indication of any Immediate medical attention and special treatment needed None. Section 55: Firelighting media Subable extinguishing media : Use extinguishing media appropriate for surrounding fire. 5.3. Advice for firelighting : No reactivity hazard other than the effects described in sub-sections below. 5.3. Stable extinguishing media : Use extinguishing media appropriate for surrounding fire.	classific	cation				
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				emergency procedures		
	6.1.1.					
				nal information available		
6.1.2. For emergency responders	612	For emergency responders				
No additional information available	v. 1.2.	i or emergency responders		nal information available		

SDS ID: P-18-58512

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Issue date: 08/04/2021

Revision date: 03/24/2022 Supersedes: 08/04/2021 Version: 1.1

6.2.	Environmental precautions	
		Prevent waste from contaminating the surrounding environment. Prevent soil and water pollution. Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.
6.3.	Methods and material for containment	t and cleaning up
		No additional information available
6.4.	Reference to other sections	
		See also sections 8 and 13.
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precauti	ons for safe handling	Wear leather safety gloves and safety shoes when handling cylinders. Protect containers from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g, wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.
7.2.	Conditions for safe storage, including	any incompatibilities
Storage	conditions	Store in a cool, well-ventilated place. Store and use with adequate ventilation. Store only where temperature will not exceed 125°F (52°C). Firmly secure containers upright to keep them from falling or being knocked over. Install valve protection cap firmly in place by hand. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods.
		OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE: When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.
7.3.	Specific end use(s)	
		None.

SECTION 8: Exposure controls/personal protection

8.1.	Control	parameters

Helium (7440-59-7)			
ACGIH	Not established		
USA OSHA	Not established		
8.2. Exposure controls			
Appropriate engineering controls	: Provide adequate general and local exhaust ventilation. Ensure exposure is below occupational exposure limits (where available).		
Eye protection	: Wear safety glasses with side shields.		
Skin and body protection	: Wear metatarsal shoes and work gloves for cylinder handling, and protective clothing where needed. Wear appropriate chemical gloves during cylinder changeout or wherever contact with product is possible.		

EN (English)



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Respiratory protection

: When workplace conditions warrant respirator use, follow a respiratory protection program that meets or exceeds the requirements of the appropriate Health and Safety Regulations. Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).

Thermal hazard protection

: Wear cold insulating gloves when transfilling or breaking transfer connections.

SECTION 9: Physical and chemica	al properties
9.1. Information on basic physical an	
Physical state	: Gas
Colour	: Colourless
Odour	: No data available
Odour threshold	: No data available
pН	: Not applicable.
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: Not applicable.
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: Not applicable.
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: No data available
Partition coefficient n-octanol/water (Log Pow	<i>i</i>) : Not applicable.
Partition coefficient n-octanol/water (Log Kow	<i>i</i>) : Not applicable.
Viscosity, kinematic	: Not applicable.
Viscosity, dynamic	: Not applicable.
Explosive properties	: Not applicable.
Oxidizing properties	: None.
Explosive limits	: No data available
9.2. Other information	
	No additional information available
SECTION 10: Stability and reactiv	ity
10.1. Reactivity	
	No reactivity hazard other than the effects described in sub-sections below.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous reaction	
ro.o. rossistinty of hazardous reaction	No additional information available
40.4 Conditions to such	
10.4. Conditions to avoid	No odditional information quailable
	No additional information available

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10.5. **Incompatible materials**

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Hexamethyldisiloxane (107-46-0)	
LD50 oral rat	> 5000 mg/kg
LC50 Inhalation - Rat [ppm]	15956 ppm/4h
ATE US (gases)	15956 ppmv/4h
Skin corrosion/irritation :	Not classified
	pH: Not applicable.
Serious eye damage/irritation :	Not classified
	pH: Not applicable.
Respiratory or skin sensitisation :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

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12.1	TO	VI.	C I	ŧ٩.
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Hexamethyldisiloxane (107-46-0)		
LC50 - Fish [1]	3.02 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])	
12.2. Persistence and degradability		
Helium Balance - Hexamethyldisiloxane 0.1pp	om - 0.9%	
Persistence and degradability	No ecological damage caused by this product.	
Helium (7440-59-7)		
Persistence and degradability	No ecological damage caused by this product.	
12.3. Bioaccumulative potential		
Helium Balance - Hexamethyldisiloxane 0.1pp	om - 0.9%	
Partition coefficient n-octanol/water (Log Pow)	Not applicable.	
Partition coefficient n-octanol/water (Log Kow)	Not applicable.	
Bioaccumulative potential	No ecological damage caused by this product.	
Helium (7440-59-7)		
Partition coefficient n-octanol/water (Log Pow)	Not applicable for inorganic products.	
Partition coefficient n-octanol/water (Log Kow)	Not applicable.	
Bioaccumulative potential	No ecological damage caused by this product.	
Hexamethyldisiloxane (107-46-0)		
BCF - Fish [1]	1300	
Partition coefficient n-octanol/water (Log Pow)	4.2	
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Mobility in soil Helium (7440-59-7) Mobility in soil	No data available.
Mobility in soil	
-	
	No data available.
Ecology - soil	No ecological damage caused by this product.
2.5. Other adverse effects	
ffect on the ozone layer	: None.
ECTION 13: Disposal consideration	ns line line line line line line line line
3.1. Waste treatment methods	
roduct/Packaging disposal recommendations	: Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.
ECTION 14: Transport information	
accordance with DOT	
ransport document description (DOT)	: UN1956 Compressed gas, n.o.s., 2.2
IN-No.(DOT)	: UN1956
roper Shipping Name (DOT)	: Compressed gas, n.o.s.
lazard labels (DOT)	: 2.2 - Non-flammable gas
OT Symbols	: G - Identifies proper shipping name (PSN) requiring the addition of technical name(s) in
	parentheses following the PSN.
dditional information	
Other information	: No supplementary information available.
pecial transport precautions	 Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure there is adequate ventilation Ensure that containers are firmly secured Ensure valve is closed and not leaking Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
ransport by sea	
IN-No. (IMDG)	: 1956
roper Shipping Name (IMDG)	: COMPRESSED GAS, N.O.S.
class (IMDG)	: 2.2 - Non-flammable, non-toxic gases
ir transport	
IN-No. (IATA)	: 1956
Proper Shipping Name (IATA)	: COMPRESSED GAS, N.O.S.
Class (IATA)	: 2 - Gases
ECTION 15: Regulatory information	
5.1. US Federal regulations	
lo additional information available	

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15.2. International regulations

CANADA

Helium (7440-59-7)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

15.2.2. National regulations

No additional information available

15.3. US State regulations			
Helium Balance - Hexamethyldisiloxane 0.1ppm - 0.9%()			
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		

Helium (7440-59-7)					
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)	
No	No	No	No		
Hexamethyldisiloxane	e (107-46-0)				
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	No significant risk level (NSRL)	
No	No	No	No		
Helium (7440-59-7)					
U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List					



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SECTION 16: Other information	
Other information	: When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product.
	Linde asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information.
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