

Heptamethyldisilazane Safety Data Sheet 7188107 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/31/2018 Version: 1.0

SECTION 1: Identification				
1.1. Identification				
Product form	: Substance			
Substance name	: Heptamethyldisilazane			
CAS No	: 920-68-3			
Product code	: 7188-1-07			
Formula	: C7H21NSi2			
Synonyms	: NN-Bis(trimethylsilyl)methylamine			
Other means of identification	: MFCD00008262			
	substance or mixture and uses advised against			
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development			
1.3. Details of the supplier of the sa	afety data sheet			
SynQuest Laboratories, Inc.				
P.O. Box 309				
Alachua, FL 32615 - United States of Amer T (386) 462-0788 - F (386) 462-7097	ica			
info@synquestlabs.com - www.synquestlab	DS.COM			
1.4. Emergency telephone number				
Emergency number	: (844) 523-4086 (3E Company - Account 10069)			
SECTION 2: Hazard(s) identificat	tion			
2.1. Classification of the substance	e or mixture			
Classification (GHS-US)				
Flom Lig 2 H226 Flommoble liquid on	nd vanour			
Flam. Liq. 3 H226 - Flammable liquid an				
Skin Irrit. 2 H315 - Causes skin irritation	n			
	n . irritation			
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye	n . irritation			
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eyeSTOT SE 3H335 - May cause respirato	n . irritation			
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Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	n irritation my irritation my irritation my irritation irritation my irritation irr			

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Heptamethyldisilizane (Main constituent) ICAS No) 920-68-3 c= 100 Fram. Lia, 3, H226 Full text of H-phrases: see section 16 STOT SE 3, H335 3.2. Mixture Not applicable SECTION 4: First aid measures First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the lab where possible). Move the affected personnel away from the contaminated area. First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing, if not breathing, give ar respiration. Get medical advice/attention. First-aid measures after skin contact : Wash with plenty of soap and water. Get medical advice/attention. First-aid measures after ingestion : Do NOT induce voriniting. Never give anything by mouth to an unconscious person. Rins mouth out with water. Get medical advice/attention. First-aid measures after ingestion : Do NOT induce voriniting. Never give anything by mouth to an unconscious person. Rins mouth out with water. Get medical advice/attention. 4.2. Most important symptoms and effects, both acute and delayed Symptomatically. SECTION 5: Firefighting media Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing me		lense P312 P332 P333 P337 P362 P370 P400 P400 P400	 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 POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant 		
2.4. Unknown acute toxicity (GHS US) Not applicable SECTION 3: Composition/information on ingredients 3.1. Substance Substance type : Mono-constituent Name Product identifier % Haptmethyldbillszane (CAS No) 920-68-3 <= 100 Film. Lig. 3, 1426 Skin Intr. 2, H315 Eye Intr. 2, H316 Eye Intr. 2, H316 Eye Intr. 2, H316 System 2, A, H310 Stort SE 3, H336 Stort SE 3, H336 Eye Intr. 2, H316 System 2, A, H310 Stort SE 3, H336 Eye Intr. 2, H316 Eye Intr. 2, H316 System 2, A, H310 Stort SE 3, H336 Eye Intr. 2, H316 Eye Intr. 2, H316 System 2, A, H310 Stort SE 3, H336 Eye Intr. 2, H316 Eye Intr. 2, H316 System 2, A, H310 Stort SE 3, H336 Eye Intr. 2, H316 Eye Intr. 2, H316 System 2, A, H310 Stort SE 3, H336 Eye Intr. 2, H316 Eye Intr. 2, H316 System 2, A, H310 Stort SE 3, H336 Eye Intr. 2, H316 Eye Intr. 2, H316 System 2, A, H310 Stort SE 3, H336 Eye Intr. 2, H316 Eye Intr. 2, H316 System 2, A, H310 Store Description of first aid measures	2.3. Other hazards				
Not applicable SECTION 3: Composition/information on ingredients 3.1 Substance Substance type : Mono-constituent Mono-constiteur <td>No additional information availa</td> <th>able</th> <td></td> <td></td> <td></td>	No additional information availa	able			
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Substance type : Mono-constituent Name Product identifier % Classification (GHS-US Heptamethyldislazane (GAS No) 920-68-3 <= 100	SECTION 3: Compositi	on/information on in	ngredients		
Name Product identifier % Classification (GHS-US Section (GHS-US Wein constituent) Hypermethydislizane (Vein constituent) (CAS No) 920-58-3 <= 100	3.1. Substance				
Heptemethyldialazane (Wain constituent) (CAS No) 920-68-3 c= 100 Fiam. Lia, 2, H226 Sin Intri, 2, H319 STOT SE 3, H335 Full text of H-phrases: see section 16	Substance type	: Mon	o-constituent		
Heptamethyldislazane (Man constituent) ICAS No) 920-68-3 <= 100 Flam. Liq. 3, H22 a Skin Intr. 2, H315 Eyror SE 3, H335 Full text of H-phrases: see section 16 3.2. Mixture Not applicable SECTION 4: First aid measures First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the lab- where possible). Move the affected personnel away from the contaminated area. First-aid measures after inhalation : Renove person to fresh air and keep comfortable for breathing, if not breathing, give an respiration. Get medical advice/attention. First-aid measures after eye contact : Wash with plenty of scap and water. Get medical advice/attention. First-aid measures after eye contact : Most important symptoms and effects, both acute and delayed Symptoms/injuries : The most important known symptoms and effects, both acute and delayed Symptoms/injuries : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media Suitable extinguishing media : Thermal decomposition generates: Carbon oxides. Nitrogen oxides. Silicon oxides. 51. Extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing me appropriate for surround	Name		Product identifier	%	Classification (GHS-US)
3.2. Mixture Not applicable SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the lab where possible). Move the affected personnel away from the contaminated area. First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If not breathing, give an respiration. Get medical advice/attention. First-aid measures after eye contact : Wash with plenty of soap and water. Get medical advice/attention. First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rine mouth out with water. Get medical advice/attention. First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rine mouth out with water. Get medical advice/attention. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see sec 2.2) and/or in section 11. 4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. : SECTION 5: Firefighting media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing me appropriate for surrounding fire. 5.2.	Heptamethyldisilazane				Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
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SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the lab where possible). Move the affected personnel away from the contaminated area. First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If not breathing, give ar respiration. Get medical advice/attention. First-aid measures after eye 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 le present and easy to do. Continue rinsing. Get medical advice/attention. First-aid measures after ingestion : Do NOT induce vorniting. Never give anything by mouth to an unconscious person. Rins mouth out with water. Get medical advice/attention. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see sec 2.2) and/or in section 11. 4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. : SectorION 51: Firefighting media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Wate	3.2. Mixture				
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First-aid measures after ingestion present and easy to do. Continue rinsing. Get medical advice/attention. First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinsmouth out with water. Get medical advice/attention. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see see 2.2) and/or in section 11. 4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing me appropriate for surrounding fire. 5.2. Special hazards arising from the substance or mixture Fire hazard : Thermal decomposition generates: Carbon oxides. Nitrogen oxides. Silicon oxides. Explosion hazard : Risk of explosion if heated under confinement. Use water spray or fog for cooling expos containers. May form flammable/explosive vapor-air mixture. 5.3. Advice for firefighters Firefighting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.	First-aid measures after skin co	ontact : Was	h with plenty of soap and water. Get med	ical advice/atten	tion.
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Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see sec 2.2) and/or in section 11. 4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media Sitable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media S.2. Special hazards arising from the substance or mixture Fire hazard : Thermal decomposition generates: Carbon oxides. Nitrogen oxides. Silicon oxides. Explosion hazard : Risk of explosion if heated under confinement. Use water spray or fog for cooling expos containers. May form flammable/explosive vapor-air mixture. 5.3. Advice for firefighters Firefighting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.	First-aid measures after ingest				unconscious person. Rinse
2.2) and/or in section 11. 4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media Sitable extinguishing media Solutable extinguishing media Second the substance or mixture Fire hazard Explosion hazard Sik of explosion if heated under confinement. Use water spray or fog for cooling expos containers. May form flammable/explosive vapor-air mixture. 5.3. Advice for firefighters Firefighting instructions Sin case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.	4.2. Most important syn	ptoms and effects, both	acute and delayed		
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Firefighting instructions : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.	5.3. Advice for firefighte	ers			
	Ŭ		ase of fire: Evacuate area. Fight fire remo	tely due to the ris	sk of explosion.
Protection during firefighting : Wear gas tight chemically protective clothing in combination with self contained breathin apparatus. For further information refer to section 8: "Exposure controls/personal protective	Protection during firefighting	: Wea	ar gas tight chemically protective clothing	n combination w	vith self contained breathing

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SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipment and emergency procedures				
General measures	Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.			
6.1.1. For non-emergency personnel				
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.			
6.1.2. For emergency responders				
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".			
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.			
6.2. Environmental precautions				
Avoid release to the environment. Notify authoritie	s if product enters sewers or public waters.			
6.3. Methods and material for containment	t and cleaning up			
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.			
Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.			
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".			
6.4. Reference to other sections				
No additional information available				
SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.			
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.			
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.			
7.2. Conditions for safe storage, including any incompatibilities				
Technical measures	: Comply with applicable regulations.			
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Keep contents under inert gas.			
Incompatible materials	: Refer to Section 10 on Incompatible Materials.			
	: Store in dry, cool, well-ventilated area.			

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

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ccording to Federal Register / Vol. 77, No. 58 / Monda	ay, March 26, 2012 / Rules and Regulations		
SECTION 9: Physical and chemica	l properties		
9.1. Information on basic physical and	I chemical properties		
Physical state	: Liquid		
Color	: No data available		
Ddor	: No data available		
Ddor threshold	: No data available		
Н	: No data available		
lelting point	: No data available		
Freezing point	: No data available		
Boiling point	: 144 - 147 °C		
Flash point	: 28 °C		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flammability (solid, gas)	: No data available		
Explosion limits	: No data available		
Explosive properties	: No data available		
Dxidizing properties	: No data available		
/apor pressure	: No data available		
Relative density	: No data available		
Relative vapor density at 20 °C	: No data available		
Specific gravity / density	: 0.799 (@ 20 °C)		
<i>l</i> olecular mass	: 175.4193 g/mol		
Solubility	: No data available		
.og Pow	: No data available		
uto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
/iscosity	: No data available		
/iscosity, kinematic	: No data available		
/iscosity, dynamic	: No data available		
0.2. Other information			
Refractive index	: 1.421 (@ 20 °C)		
SECTION 10: Stability and reactivity	ty		
I0.1. Reactivity			
lo additional information available			
0.2. Chemical stability			
he product is stable at normal handling and s	storage conditions.		
0.3. Possibility of hazardous reactions	8		
lo additional information available	-		
0.4. Conditions to avoid			
Keep away from heat, sparks and flame.			
0.5. Incompatible materials			
Strong acids. Strong oxidizing agents.			
10.6. Hazardous decomposition produc	ts		
Jnder normal conditions of storage and use, h ire, see Section 5.	azardous decomposition products shoul	ld not be produced. Hazardous decomposit	ion products in case of
SECTION 11: Toxicological inform	ation		
11.1. Information on toxicological effect			
Acute toxicity	: Not classified		
Skin corrosion/irritation	Causes skin irritation.Causes serious eye irritation.		
Serious eye damage/irritation	· ·		
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Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	tional information available
12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential
No addi	tional information available
12.4.	Mobility in soil
No addi	tional information available
12.5.	Other adverse effects
No addi	tional information available

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.		
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.		
Additional information	: Recycle the material as far as possible.		

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols : UN1993 Flammable liquids, n.o.s., 3, III

: UN1993

- : Flammable liquids, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



: III - Minor Danger

: 203

- : 242
- : G Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 1993
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory information	
15.1. US Federal regulations	
Heptamethyldisilazane (920-68-3)	
Listed on the United States TSCA (Toxic Substa	ances Control Act) inventory

Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Heptamethyldisilazane (920-68-3)

Listed on the Canadian DSL (Domestic Sustances List)

EU-Regulations

No additional information available

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National regulations

Heptamethyldisilazane (920-68-3)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Full	text	of	H-pl	hrases:

	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
	Flam. Liq. 3	Flammable liquids Category 3
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H226	Flammable liquid and vapor
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
NFPA ł	nealth hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA f	ire hazard	: 3 - Liquids and solids that can be ignited under almost all ambient conditions.
NFPA r	eactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS II	I Rating	
Health		: 2 Moderate Hazard - Temporary or minor injury may occur
Flamma	ability	: 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)
Physica	al	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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