NC.	Safety data sheet according to 1907/2006/EC, Article 31	
Pri	inting date 21.07.2021	Revision: 21.07.2021
	SECTION 1: Identification of the substance/mixture and of the comparison	iny/undertaking
	· 1.1 Product identifier	
	· Trade name: <u>Hexafluorobenzene, min. 99%</u>	
	<ul> <li>Item number: 09-4630</li> <li>CAS Number: 392-56-3</li> <li>EC number: 206-876-2</li> <li>1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.</li> </ul>	
	<ul> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: Strem Chemicals, Inc.</li> <li>7 Mulliken Way</li> <li>NEWBURYPORT, MA 01950</li> <li>USA</li> <li>info@strem.com</li> </ul>	
	<ul> <li>Further information obtainable from: Technical Department</li> <li>1.4 Emergency telephone number: EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: +1 (978) 499-1600</li> </ul>	
	SECTION 2: Hazards identification	
	<ul> <li>• 2.1 Classification of the substance or mixture</li> <li>• Classification according to Regulation (EC) No 1272/2008</li> <li>• GHS02 flame</li> </ul>	
	Flam. Liq. 2 H225 Highly flammable liquid and vapour.	
	Skin Irrit. 2 H315 Causes skin irritation.	
	Eye Irrit. 2 H319 Causes serious eye irritation.	
	STOT SE 3 H335 May cause respiratory irritation.	

· 2.2 Label elements

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• Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. · Hazard pictograms



· Signal word Danger

· Hazard-determining components of labelling: Perfluorobenzene

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# HEMICALS, INC.

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Hazard stateme			
H225 Highly flammable liquid and vapour.			
H315 Causes skin irritation.			
H319 Causes serious eye irritation.			
H335 May cause respiratory irritation.			
Precautionary s	statements		
P101	If medical advice is needed, have product container or label at hand.		
P102	Keep out of reach of children.		
P103	Read label before use.		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		
P303+P361+P	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.		
P305+P351+P	338 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.		
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.		
2.3 Other hazar	rds		
<b>Results of PBT</b>	and vPvB assessment		
<b>PBT:</b> Not appli			
"P"B. Not annl			

· **vPvB:** Not applicable.

## **SECTION 3: Composition/information on ingredients**

- · 3.1 Chemical characterisation: Substances · CAS No. Description
- 392-56-3 Perfluorobenzene
- · Identification number(s)
- EC number: 206-876-2

# **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

# **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- $\cdot \textit{For safety reasons unsuitable extinguishing agents: } Water with full jet$

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Trade name: Hexafluorobenzene, min. 99%

- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

#### **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Prevent seepage into sewage system, workpits and cellars.
- $\cdot$  6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

6.4 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.

## **SECTION 7: Handling and storage**

• 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

- 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 container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

- Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 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 and skin.

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#### · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

### • Protection of hands:



Protective 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:



Tightly sealed goggles

<ul> <li>9.1 Information on basic physical and cl</li> <li>General Information</li> </ul>	iemicui properties
· Appearance:	
Form:	Liquid
Colour:	Colourless
· Odour:	Undistinguishable.
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/freezing point:	4 °C
Initial boiling point and boiling range:	• 81-82 °C
· Flash point:	Not applicable.
· Flammability (solid, gas):	Not determined.
· Ignition temperature:	
Decomposition temperature:	Not determined.
• Auto-ignition temperature:	Not determined.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 20 •C:	1.612 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.

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		(Contd. of page
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC (EC)	0.00 %	
• 9.2 Other information	No further relevant information available.	

# SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- $\cdot$  10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

# **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- *Skin corrosion/irritation Causes skin irritation.*
- Serious eye damage/irritation Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure
- May cause respiratory irritation.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- $\cdot$  12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.

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- $\cdot \textit{Additional ecological information:}$
- $\cdot$  General notes: Not known to be hazardous to water.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.

# **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number	
ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S.
IMDG, IATA	FLAMMABLE LIQUID, N.O.S.
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
	2 Flaumahla liquida
Class Label	3 Flammable liquids. 3
	5
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	63
EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
Stowage Category	В
14.7 Transport in bulk according to Anne	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	lL
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

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· Transport category · Tunnel restriction code	3 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, II

## **SECTION 15: Regulatory information**

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Technical Department.
- · Contact: Technical Director
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3