Printing date 15.02.2022

CHEMICALS, INC.

Revision: 15.02.2022

	N 1: Identification of the substance/mixture and of the company/undertaking
1.1 Produc	ct identifier
Trade nan	ne: <u>Hexafluoroacetone, anhydrous, 97%</u>
CAS Num 684-16-2 1.2 Releva	ber: 09-4568 ber: nt identified uses of the substance or mixture and uses advised against relevant information available.
Manufacti Strem Che 7 Mulliken	YPORT, MA 01950
1.4 Emerg EMERGE	formation obtainable from: Technical Department ency telephone number: NCY: CHEMTREC: + 1 (800) 424-9300 rmal opening times: +1 (978) 499-1600
SECTIO	N 2: Hazards identification
34 ×	GHS06 skull and crossbones
	 3 H301 Toxic if swallowed. 2 H330 Fatal if inhaled.
	<i>3</i> H301 Toxic if swallowed.
	 3 H301 Toxic if swallowed. 2 H330 Fatal if inhaled.
Acute Tox. Repr. 2	 3 H301 Toxic if swallowed. 2 H330 Fatal if inhaled. GHS08 health hazard
Acute Tox. Repr. 2	 3 H301 Toxic if swallowed. 2 H330 Fatal if inhaled. GHS08 health hazard H361 Suspected of damaging fertility or the unborn child.
Acute Tox. Repr. 2 Skin Corr.	 3 H301 Toxic if swallowed. 2 H330 Fatal if inhaled. GHS08 health hazard H361 Suspected of damaging fertility or the unborn child. GHS05 corrosion
Acute Tox. Repr. 2 Repr. 2 Skin Corr. Press. Gas 2.2 Label of Labelling The substa	 3 H301 Toxic if swallowed. 2 H330 Fatal if inhaled. GHS08 health hazard H361 Suspected of damaging fertility or the unborn child. GHS05 corrosion 1A H314 Causes severe skin burns and eye damage. L H280 Contains gas under pressure; may explode if heated. elements according to Regulation (EC) No 1272/2008 nce is classified and labelled according to the CLP regulation.
Acute Tox. Repr. 2 Repr. 2 Skin Corr. Press. Gas 2.2 Label Labelling	 3 H301 Toxic if swallowed. 2 H330 Fatal if inhaled. GHS08 health hazard H361 Suspected of damaging fertility or the unborn child. GHS05 corrosion 1A H314 Causes severe skin burns and eye damage. L H280 Contains gas under pressure; may explode if heated. elements according to Regulation (EC) No 1272/2008 nce is classified and labelled according to the CLP regulation.

Printing date 15.02.2022

Revision: 15.02.2022

Trade name:	Hexafluoroacetone,	anhydrous,	97%
-------------	--------------------	------------	-----

Signal word Da	(Contd. of page 1)
0	ining components of labelling:
hexafluoroacete	
Hazard stateme	
-	gas under pressure; may explode if heated.
H301 Toxic if s	
H330 Fatal if in	
	evere skin burns and eye damage.
	d of damaging fertility or the unborn child.
Precautionary	
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.
P284	[In case of inadequate ventilation] wear respiratory protection.
P301+P310	
P303+P361+P	2353 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, is present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other haza	rds
Results of PBT	and vPvB assessment
PBT: Not appli	

• *vPvB:* Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information:

Immediately remove any clothing soiled by the product.

- Remove breathing equipment only after contaminated clothing have been completely removed.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:
- Supply fresh air or oxygen; call for doctor.
- 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. Then consult a doctor.
- After swallowing:
- Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

· 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)

GB



⁶⁸⁴⁻¹⁶⁻² hexafluoroacetone

Printing date 15.02.2022

Revision: 15.02.2022

Trade name: Hexafluoroacetone, anhydrous, 97%

• **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: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. 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. Open and handle receptacle with care. Only handle and refill product in closed systems. Prevent formation of aerosols.

- *Information about fire and explosion protection:* Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.
- Reep container tignity seated.
- Protect from exposure to the light.
- 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.

(Contd. on page 4)



(Contd. of page 2)

GB

Revision: 15.02.2022

Trade name: Hexafluoroacetone, anhydrous, 97%

Printing date 15.02.2022

CHEMICALS, INC.

re monitoring at the workplace: Not required. during the making were used as basis. res: Ind feed. minated clothing d of work. n use respiratory filter device. In case of intensive or longer exposure s rice.
luring the making were used as basis. res: Ind feed. minated clothing d of work. n use respiratory filter device. In case of intensive or longer exposure
res: nd feed. minated clothing d of work. n use respiratory filter device. In case of intensive or longer exposure
nd feed. minated clothing d of work. n use respiratory filter device. In case of intensive or longer exposure
nd feed. minated clothing d of work. n use respiratory filter device. In case of intensive or longer exposure
nd feed. minated clothing d of work. n use respiratory filter device. In case of intensive or longer exposure
minated clothing d of work. n use respiratory filter device. In case of intensive or longer exposure
d of work. n use respiratory filter device. In case of intensive or longer exposure
n use respiratory filter device. In case of intensive or longer exposure
le and resistant to the product/ the substance/ the preparation.
n to the glove material can be given for the product/ the preparation/
leration of the penetration times, rates of diffusion and the degradation
eration of the penetration times, rates of affasion and the degradation
not only depend on the material, but also on further marks of quality
er.
e found out by the manufacturer of the protective gloves and has to
chemical properties
Commenced and
Compressed gas Colourless
Colouriess Characteristic
Not determined.
Not determined.
Undetermined.
: Undetermined.
Not applicable.
Not determined.

 $(Contd. \ on \ page \ 5)$

- GB

Printing date 15.02.2022

CHEMICALS, INC

Revision: 15.02.2022

Trade name: Hexafluoroacetone, anhydrous, 97%

	(Contd. of page
Auto-ignition temperature:	Not determined.
Explosive properties:	Not determined.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	0.0016 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
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 %
VÕC (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.
- 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
- Toxic if swallowed.
- Fatal if inhaled.
- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- · Serious eye damage/irritation
- Causes severe skin burns and eye damage.
- *Respiratory or skin sensitisation Based on available data, the classification criteria are not met.*
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- \cdot Germ cell mutagenicity Based on available data, the classification criteria are not met.
- \cdot Carcinogenicity Based on available data, the classification criteria are not met.

(Contd. on page 6)

GB

Printing date 15.02.2022

Revision: 15.02.2022

Trade name: Hexafluoroacetone, anhydrous, 97%

· Reproductive toxicity

- Suspected of damaging fertility or the unborn child.
- STOT-single exposure Based on available data, the classification criteria are not met.
- 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.
- 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.
- Additional ecological information:
- General notes: Must not reach sewage water or drainage ditch undiluted or unneutralised.
- · 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, IATA	UN2420	
· IMDG	UN2,42	
· 14.2 UN proper shipping name		
·ADR	2420 HEXAFLUOROACETONE	
·IATA	HEXAFLUOROACETONE	
· 14.3 Transport hazard class(es) · ADR		
· Class	2 2TC Gases.	

(Contd. of page 5)



Printing date 15.02.2022

CHEMICALS, INC.

Revision: 15.02.2022

Trade name: Hexafluoroacetone,	anhydrous, 97%
--------------------------------	----------------

	(Contd. of page
Label	2.3+8
IMDG	
Class	2.3
Label	2.3/8
IATA	
Class	not regulated
Label	2.3
14.4 Packing group	
ADR, IMDĞ, IATA	not regulated
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Gases.
Danger code (Kemler):	268
EMS Number:	F-C,S-U
14.7 Transport in bulk according to Ann	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
Transport category] [/]
Tunnel restriction code	C/D
IMDG	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
UN "Model Regulation":	UN 2420 HEXAFLUOROACETONE, 2.3 (8)

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 H2 ACUTE TOXIC
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- \tilde{Q} ualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

(Contd. on page 8)

GB

Printing date 15.02.2022

CHEMICALS. INC

Revision: 15.02.2022

Trade name: Hexafluoroacetone, anhydrous, 97%

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. of page 7)

GE

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
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
Press. Gas L: Gases under pressure – Liquefied gas
Acute Tox. 3: Acute toxicity – Category 2
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Repr. 2: Reproductive toxicity – Category 2