TCI EUROPE N.V.

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# SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

	vision number: 1	Revision date: 10/03/2018
SECTION 1: Identification of the s	ubstance/mixture and of the company/u	ndertaking
1.1 Product identifiers		
Product name:	Heptafluoropropyl Bromide	
Product code:	H0689	
1.2 Relevant identified uses of the sul Identified uses:	stance or mixture and uses advised against Reagents.	
1.3 Details of the supplier of the safet	/ data sheet	
Supplier:		
TCI EUROPE N.V.		
Boerenveldseweg 6		
Haven 1063		
B-2070 Zwijndrecht		
Telephone: +32(0)3 735 07 0 E-mail: sales-eu@tcichemica		
1.4 Emergency telephone number:	+32(0)70 245 245	
SECTION 2: Hazards identificatio		
2.1 Classification of the substance or		
Acute toxicity (Oral)	Category 4	
Acute toxicity (Dermal)	Category 4	
Acute toxicity (Inhalation)	Category 4	
Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritation	Category 2	
Pictograms or hazard symbols		
Signal word	Warning	
Signal word Hazard statements	Warning H302+H312+H332-Harmful if swallowed, in c	ontact with skin or if inhaled
Signal word Hazard statements	H302+H312+H332-Harmful if swallowed, in c	ontact with skin or if inhaled.
•	H302+H312+H332-Harmful if swallowed, in c H315-Causes skin irritation.	ontact with skin or if inhaled.
Hazard statements	H302+H312+H332-Harmful if swallowed, in c H315-Causes skin irritation. H319-Causes serious eye irritation.	
•	H302+H312+H332-Harmful if swallowed, in c H315-Causes skin irritation. H319-Causes serious eye irritation. P261-Avoid breathing mist, vapours or spray.	
Hazard statements	H302+H312+H332-Harmful if swallowed, in c H315-Causes skin irritation. H319-Causes serious eye irritation. P261-Avoid breathing mist, vapours or spray. P270-Do not eat, drink or smoke when using	this product.
Hazard statements	H302+H312+H332-Harmful if swallowed, in c H315-Causes skin irritation. H319-Causes serious eye irritation. P261-Avoid breathing mist, vapours or spray. P270-Do not eat, drink or smoke when using P280-Wear protective gloves, protective cloth	this product.
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## SECTION 3: Composition/information on ingredients

3.1 Substances	
Components:	Heptafluoropropyl Bromide
Percent:	>98.0%(GC)
CAS RN:	422-85-5
EC-No:	207-023-7
Synonyms:	Perfluoropropyl Bromide
Chemical Formula:	C <sub>3</sub> BrF <sub>7</sub>

# SECTION 4: First aid measures 4.1 Description of first aid measures Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Ingestion: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

# 4.2 Most important symptoms and effects, both acute and delayed No data available

### **4.3 Indication of any immediate medical attention and special treatment needed** No data available

SECTION 5: Firefighting measures	
5.1 Extinguishing media	
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
5.2 Special hazards arising from the	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
substance or mixture	Carbon dioxide, Carbon monoxide, Hydrogen fluoride, Hydrogen bromide
5.3 Advice for firefighters	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according
-	to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of
	fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure
	to wear personal protective equipment
SECTION 6: Accidental release me	asures
6.1 Personal precautions, protective	Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate
equipment and emergency procedures	ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off,
- 1	etc
6.2 Environmental precautions	Prevent product from entering drains
6.3 Methods and materials for	Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large
containment and cleaning up	amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly
containment and cleaning up	disposed of, in accordance with appropriate laws and regulations.
	disposed of, in accordance with appropriate laws and regulations.
6.4 Reference to other sections	For disposal see section 13.
0.4 Reference to other sections	
SECTION 7: Handling and storage	
	Londling is performed in a well-ventilated place. Wear evitable protective equipment. Provent
7.1 Precautions for safe handling	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent
	generation of vapour or mist. Wash hands and face thoroughly after handling. Use a ventilation, local
	exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.
7.9 Conditions for acts storage	Keen container tightly closed. Store in a cool and dark place. Store away from incompatible materials
7.2 Conditions for safe storage,	Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials
including any incompatibilities	such as oxidizing agents.
7.3 Specific end use(s)	No further relevant information available.

SECTION 8: Exposure controls/personal protection	
8.1 Control parameters	No data available
8.2 Exposure controls	Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.
Respiratory protection: Hand protection: Eye protection: Skin and body protection:	Vapor respirator. Follow local and national regulations. Protective gloves. Safety glasses. A face-shield, if the situation requires. Protective clothing. Protective boots, if the situation requires.

# SECTION 9: Physical and chemical properties

SECTION 9: Physical and chemical	
9.1 Information on basic physical and ch	nemical properties
Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Yellow red
Odour:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Boiling point/range:	12°C
Flash point:	No data available
Evaporation rate(Butyl Acetate=1):	No data available
Flammability(solid, gas):	No data available
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
Vapour pressure:	No data available.
Vapour density:	No data available
Relative density:	No data available
Solubility(ies):	
[Water]	No data available
[Other solvents]	No data available
Partition coefficient:	No data available
n-octanol/water:	
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available
9.2 Other safety information	No data available

SECTION 10: Stability and reactivity		
10.1 Reactivity	No data available	
10.2 Chemical stability	Stable under proper conditions.	
10.3 Possibility of hazardous reactions	No special reactivity has been reported.	
10.4 Conditions to avoid	No data available	
10.5 Incompatible materials	Oxidizing agents	

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide, Hydrogen fluoride, Hydrogen bromide

# SECTION 11: Toxicological information

11.1 Information on toxicological effects	6
Acute Toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	No data available
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available

## SECTION 12: Ecological information

12.1 Toxicity	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
12.2 Persistence and degradability	No data available
12.2 Fersistence and degradability	
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law (PaM <sup>3</sup> /mol):	No data available
12.5 Results of PBT and vPvB assessme	ent
PBT:	Not applicable
vPvB:	Not applicable

#### 12.6 Other adverse effects

## SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. Observe all federal, state and local regulations when disposing of the substance.

No data available

#### SECTION 14: Transport information 14.1 UN number Not listed 14.2 UN proper shipping name ADR/RID Not listed IMDG/IMO Not listed ICAO/IATA Not listed 14.3 Transport hazard class(es) ADR/RID Does not correspond to the classification standard of the United Nations IMDG/IMO Does not correspond to the classification standard of the United Nations ICAO/IATA Does not correspond to the classification standard of the United Nations 14.4 Packaging group ADR/RID IMDG/IMO ICAO/IATA 14.5 Environmental hazards Marine pollutant 14.6 Special precautions for user No data available

# SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Substance of Very High Concern (SVHC) according to the Not listed REACH Regulations (EC) No.1907/2006

## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information	
Prepared by:	TCI EUROPE N.V.
Issue date:	10/03/2018

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet