# Safety data sheet according to 1907/2006/EC, Article 31

CHEMICALS, INC.

Printing date 18.07.2021	Revision: 18.07.2021
SECTION 1: Identification of the substance/mixture and of th	e company/undertaking
· 1.1 Product identifier	
· Trade name: t-Butylisocyanide, min. 98%	
<ul> <li>Item number: 06-0120</li> <li>CAS Number: 7188-38-7</li> <li>EINECS Number: 23-0</li> <li>1.2 Relevant identified uses of the substance or mixture and uses advised a No further relevant information available.</li> </ul>	ıgainst
<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 NEWBURYPORT, MA 01950 USA 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> <li>Flam. Liq. 2 H225 Highly flammable liquid and vapour.</li> <li>GHS06 skull and crossbones</li> <li>Acute Tox. 3 H301 Toxic if swallowed.</li> <li>Acute Tox. 3 H311 Toxic in contact with skin.</li> <li>Acute Tox. 2 H330 Fatal if inhaled.</li> </ul>	
<ul> <li>• 2.2 Label elements</li> <li>• Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.</li> <li>• Hazard pictograms</li> </ul>	
GHS02 GHS06	
· Signal word Danger	
Hazard-determining components of labelling:	
t-Butylisocyanide, min. 98%	(Contd. on page 2)

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· Hazard statemen	nts
H225 Hig	hly flammable liquid and vapour.
H301+H311 Tox	cic if swallowed or in contact with skin.
H330 Fat	al if inhaled.
· Precautionary st	atements
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.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+P3	53 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/
	shower.
P422	Store contents under inert gas.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· 2.3 Other hazard	ls
· Results of PBT a	ind vPvB assessment
· PBT: Not applic	able.

• **vPvB:** Not applicable.

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

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 7188-38-7 t-Butylisocyanide, min. 98%
- Identification number(s)
- **EC number:** 23-0

#### **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.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

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#### **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.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- $\cdot$  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: Prevent seepage into sewage system, workpits and cellars.
- 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. Open and handle receptacle with care. Prevent formation of aerosols.

- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage: Keep cool.
- 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.
- Recommended storage temperature: Store at temperatures not exceeding 4 °C. Keep cool.
- · 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.

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Trace nume: 1 Datytisocyaniae, nini. 5076	
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<ul> <li>8.1 Control parameters</li> <li>Ingredients with limit values that requ</li> <li>Additional information: The lists valid</li> </ul>	<b>ire monitoring at the workplace:</b> Not required. during the making were used as basis.
<ul> <li>8.2 Exposure controls</li> <li>Personal protective equipment:</li> <li>General protective and hygienic measure</li> <li>Keep away from foodstuffs, beverages of Immediately remove all soiled and control</li> <li>Wash hands before breaks and at the enstore protective clothing separately.</li> <li>Avoid contact with the eyes and skin.</li> <li>Respiratory protection:</li> <li>In case of brief exposure or low pollutions self-contained respiratory protective destributions.</li> <li>Protection of hands:</li> </ul>	and feed. Taminated clothing ad of work. on use respiratory filter device. In case of intensive or longer exposure use
Protective gloves	
Due to missing tests no recommendation chemical mixture. Selection of the glove material on consist Material of gloves The selection of the suitable gloves doe varies from manufacturer to manufactu Penetration time of glove material	ble and resistant to the product/ the substance/ the preparation. on to the glove material can be given for the product/ the preparation/ the ideration of the penetration times, rates of diffusion and the degradation as not only depend on the material, but also on further marks of quality and rer. be found out by the manufacturer of the protective gloves and has to be
· 9.1 Information on basic physical and	chemical properties
· General Information	
· Appearance: Form:	Liquid
Colour:	Liquid Colourless
· Odour:	Pungent
· Odour threshold:	Not determined.
· pH-value:	Not determined.
• Change in condition Melting point/freezing point: Initial boiling point and boiling rang	Undetermined. <b>re:</b> 90-92 °C
· Flash point:	Not applicable.
· Flammability (solid, gas):	Not determined.
· Ignition temperature:	
Decomposition temperature:	Not determined.
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Auto-ignition temperature:	Not determined.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapou mixtures are possible.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	$0.735 \text{ g/cm}^3$
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 or in contact with skin. Fatal if inhaled.*
- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · 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.
- $\cdot$  Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- $\cdot \textit{STOT-single exposure Based on available data, the classification criteria are not met.}$

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- $\cdot \textit{STOT-repeated exposure Based on available data, the classification criteria are not met.}$
- · Aspiration hazard Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

· 12.1 Toxicity

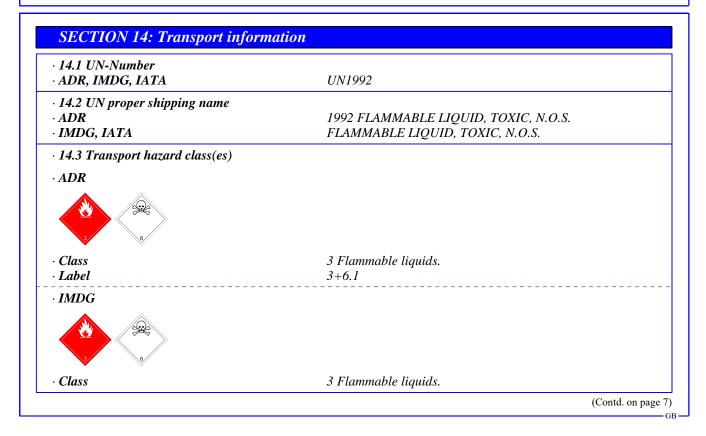
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: 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.



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· Label	3/6.1
·IATA	
· Class	3 Flammable liquids.
· Label	3 (6.1)
· 14.4 Packing group	
· ADR, IATA	II
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Flammable liquids.
· EMS Number:	F-E,S-D
· 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)	1L
$\cdot$ Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN ''Model Regulation'':	UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S., 3 (6.1), 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

H2 ACUTE TOXIC

P5c FLAMMABLE LIQUIDS

- $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 200 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

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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. Lig. 2: Flammable liquids – Category 2	
Acute Tox. 3: Acute toxicity – Category 3	
Acute Tox. 2: Acute toxicity – Category 2	