Printing date 07/09/2024

Reviewed on 07/08/2024

1 Identification

- · Product identifier
- Trade name: <u>Trichloroacetonitrile</u>
- Article number: 218965
- · CAS Number:
- 545-06-2
- *EC number*:
- 208-885-7
- Index number: 608-002-00-9
- · Application of the substance / the mixture Laboratory chemicals for research and development

· Details of the supplier of the safety data sheet

• Manufacturer/Supplier: BeanTown Chemical 9 Sagamore Park Road Hudson, NH 03051 USA

Phone: (603) 402-2234 Fax: (603) 402-9713 Email: technical@beantownchem.com www.beantownchem.com

• Information department: Technical Support Department • Emergency telephone number:

During normal operating hours, please call (603) 402-2234 After hours, please call Chemtrec at (800) 424-9300

2 Hazard(s) identification

· Classification of the substance or mixture



GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.

· Label elements

- *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



· Signal word Danger

- · Hazard-determining components of labeling:
- trichloroacetonitrile
- Hazard statements Toxic if swallowed, in contact with skin or if inhaled.

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Precautionary statements
 If swallowed: Immediately call a poison center/doctor.
 Specific treatment (see on this label).
 Rinse mouth.
 Take off immediately all contaminated clothing and wash it before reuse.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

• Other hazards

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 545-06-2 trichloroacetonitrile
- · Identification number(s)
- EC number: 208-885-7
- · Index number: 608-002-00-9

4 First-aid measures

· Description of first aid measures

- General information:
- Immediately remove any clothing soiled by the product.
- Remove breathing apparatus 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 eve contact: Rinse opened eve for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

• Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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· 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.	
· 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.	
· Protective Action Criteria for Chemicals	
· PAC-1:	
Substance is not listed.	
· PAC-2:	
Substance is not listed.	
Substance is not risted.	
• PAC-3:	
Substance is not listed.	

7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep respiratory protective device available.
- · 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: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute

- · Control parameters
- Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · 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. Store protective clothing separately. Avoid contact with the eyes and skin.

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• Breathing equipment:

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In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• 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:* Goggles recommended during refilling.

9 Physical and chemical properties

· Information on basic physical and chemical properties inn

·	General Informati
	Annagranaa

Liquid
Not determined.
Characteristic
Not determined.
Not determined.
-44 °C (-47.2 °F)
85-86 °C (185-186.8 °F)
195 °C (383 °F)
Not applicable.
Not determined.
Not determined.
Product does not present an explosion hazard.
Not determined.
Not determined.
Not determined.
1.44 g/cm ³ (12.0168 lbs/gal)
Not determined.
Not determined.
Not determined.
Not miscible or difficult to mix.
er): Not determined.
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· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.0 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- *Possibility of hazardous reactions* No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

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Oral LD50 250 mg/kg (rat)

Dermal LD50 900 mg/kg (rabbit)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

• Toxicity

• Aquatic toxicity: No further relevant information available.

· Persistence and degradability No further relevant information available.

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- · Behavior in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 3 (Assessment by list): extremely hazardous for water
- Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.
- · Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

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

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information · UN-Number · DOT, IMDG, IATA UN3276 · UN proper shipping name Nitriles, liquid, toxic, n.o.s. (trichloroacetonitrile) $\cdot DOT$ · IMDG, IATA NITRILES, LIQUID, TOXIC, N.O.S. (trichloroacetonitrile) · Transport hazard class(es) · DOT, IMDG, IATA · Class 6.1 Toxic substances · Label 6.1 · Packing group Ш · DOT, IMDG, IATA · Environmental hazards: · Marine pollutant: No · Special precautions for user Warning: Toxic substances · Hazard identification number (Kemler code): 63 · Stowage Category A · Segregation Code SG35 Stow "separated from" SGG1-acids • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. • Transport/Additional information: · DOT · Quantity limitations On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L (Contd. on page 7) US

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· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3276 NITRILES, LIQUID, TOXIC, N.O.S. (TRICHLOROACETONITRILE), 6.1, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

• Section 355 (extremely hazardous substances):

Substance is not listed.

• Section 313 (Specific toxic chemical listings):

Substance is not listed.

• TSCA (Toxic Substances Control Act):

ACTIVE

· Hazardous Air Pollutants

Substance is not listed.

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

• EPA (Environmental Protection Agency)

Substance is not listed.

• TLV (Threshold Limit Value)

Substance is not listed.

·NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

RTECS

Substance is not listed.

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

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Τŀ	his information is based on our present knowledge. However, this shall not constitute a guarantee for a
	ecific product features and shall not establish a legally valid contractual relationship.
N	FPA ratings (scale 0-4)
	ealth = 2
Fi	re = l
Re	eactivity = 0
	MIS ratings (scale 0-4)
	ealth = 2
Fi	
	eactivity $= 0$
	epartment issuing SDS: Technical Support Department
· Ca	ontact: Technical Support Department
D	ate of preparation / last revision 07/09/2024 / -
Al	bbreviations and acronyms:
	DR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the Internation
	rriage of Dangerous Goods by Road)
	(DG: International Maritime Code for Dangerous Goods
	DT: US Department of Transportation TA: International Air Transport Association
	NECS: European Inventory of Existing Commercial Chemical Substances
	15: Chemical Abstracts Service (division of the American Chemical Society)
VC	DC: Volatile Organic Compounds (USA, EU)
	250: Lethal concentration, 50 percent
	D50: Lethal dose, 50 percent
	BT: Persistent, Bioaccumulative and Toxic vB: very Persistent and very Bioaccumulative
	OSH: National Institute for Occupational Safety
	SHA: Occupational Safety & Health
	V: Threshold Limit Value
	EL: Permissible Exposure Limit
RE	EL: Recommended Exposure Limit