

CHEMICALS, INC.

SECTION 1	: Identification of the substance/mixture and of the company/undertaking				
· 1.1 Product ide	-				
· Trade name: <u>C</u>	obalt(II) trifluoromethanesulfonate, 98% (Cobalt triflate)				
• Item number: 2	27-0522				
· CAS Number:					
58164-61-7					
	entified uses of the substance or mixture and uses advised against				
No further relev	vant information available.				
· 1.3 Details of the	he supplier of the safety data sheet				
· Manufacturer/					
Strem Chemica	ls, Inc.				
7 Mulliken Way					
NEWBURYPOI	RT, MA 01950				
USA					
info@strem.com	n				
• Further inform	nation obtainable from: Technical Department				
	telephone number:				
	CHEMTREC: + 1 (800) 424-9300				
During normal	opening times: +1 (978) 499-1600				
SECTION 2.	: Hazards identification				
	· · · · · · · · · · · · · · · · · · ·				
	on of the substance or mixture				
• Classification a	according to Regulation (EC) No 1272/2008				
GHS05 corrosion					
Skin Corr. 1A	H314 Causes severe skin burns and eye damage.				
	H318 Causes serious eye damage.				
· 2.2 Label eleme	enis rding to Regulation (EC) No 1272/2008				
	is classified and labelled according to the CLP regulation.				
· Hazard pictogr					
	witey				
<u>↓</u> &					
GHS05					
• Signal word Da • Hazard stateme					
-	evere skin burns and eye damage.				
· Precautionary	• •				
P101	If medical advice is needed, have product container or label at hand.				
P102	Keep out of reach of children.				
P102	Read label before use.				
P231	Handle under inert gas.				
P262	Do not get in eyes, on skin, or on clothing.				
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.				

(Contd. on page 2) GB

Printing date 17.07.2021

Revision: 17.07.2021

#### Trade name: Cobalt(II) trifluoromethanesulfonate, 98% (Cobalt triflate)

- P422
   Store contents under inert gas.

   P501
   Dispose of contents/container in accordance with local/regional/national/international
  - Dispose of contents/container in accordance with local/regional/national/international regulations.
- 2.3 Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 58164-61-7 Cobalt(II) trifluoromethanesulfonate, 98% (Cobalt triflate)

### **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. Then consult a doctor.
- After swallowing: 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.
- $\cdot$  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: Use fire extinguishing methods suitable to surrounding conditions.
- 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: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- 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.

(Contd. on page 3)



(Contd. of page 1)

Printing date 17.07.2021

Revision: 17.07.2021

Trade name: Cobalt(II) trifluoromethanesulfonate, 98% (Cobalt triflate)

(Contd. of page 2)

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

- 7.1 Precautions for safe handling Thorough dedusting. Open and handle receptacle with care.
- · Handling: Handle under inert gas.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage: Store contents under inert gas.
- 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 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.
- Avoid contact with the eyes and skin.
- · Respiratory protection: Not required.
- · 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  $\cdot$  **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.

(Contd. on page 4)

GB



Printing date 17.07.2021

CHEMICALS, INC.

Revision: 17.07.2021

		(Contd. of pag
Eye protection:		
Tightly sealed goggles		
9.1 Information on basic physical and ch	emical properties	
General Information Appearance:		
Form:	Powder	
Colour:	Whitish	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not determined.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Not determined.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not applicable.	
Density:	Not determined.	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with	Y 111.	
water:	Insoluble.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:	0.0.0/	
Organic solvents:	0.0 % 0.00 %	
VOC (EC)	0.00 %	

# SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

(Contd. on page 5)

GB

Printing date 17.07.2021

Revision: 17.07.2021

(Contd. of page 4)

Trade name: Cobalt(II) trifluoromethanesulfonate, 98% (Cobalt triflate)

- · 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 Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- $\cdot$  Serious eye damage/irritation
- Causes serious eye damage.
- · 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.
- $\cdot$  **Reproductive toxicity** Based on available data, the classification criteria are not met.
- 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:
  - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. 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.

(Contd. on page 6)

Trade name: Cobalt(II) trifluoromethanesulfonate, 98% (Cobalt triflate) (Contd. of page 5) · Uncleaned packaging: · Recommendation: Disposal must be made according to official regulations. **SECTION 14: Transport information** · 14.1 UN-Number UN1759 · ADR, IMDG, IATA · 14.2 UN proper shipping name 1759 CORROSIVE SOLID, N.O.S.  $\cdot ADR$ CORROSIVE SOLID, N.O.S. · IMDG, IATA • 14.3 Transport hazard class(es) · ADR, IMDG, IATA · Class 8 Corrosive substances. · Label 8 · 14.4 Packing group · ADR, IMDG, IATA Π · 14.5 Environmental hazards: Not applicable. · 14.6 Special precautions for user Warning: Corrosive substances. · EMS Number: F-A, S-B· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information:  $\cdot ADR$  $\cdot$  Limited quantities (LQ) 1 kg · Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g · UN ''Model Regulation'': UN 1759 CORROSIVE SOLID, N.O.S., 8, 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.

· National regulations:

• Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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

(Contd. on page 7)



Printing date 17.07.2021

Revision: 17.07.2021

Printing date 17.07.2021

CHEMICALS, INC

Revision: 17.07.2021

#### Trade name: Cobalt(II) trifluoromethanesulfonate, 98% (Cobalt triflate)

(Contd. of page 6)

GF

### **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

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Eye Dam. 1: Serious eye damage/eye irritation – Category 1