**CI** TCI EUROPE N.V.

# **SAFETY DATA SHEET**

According to 1907/2006/EC, Article 31

	Revision number: 1	<b>Revision date:</b> 10/03/201
SECTION 1: Identification of the	e substance/mixture and of the company/undertaking	
1.1 Product identifiers		
Product name:	Copper(I) Trifluoromethanesulfonate Benzene Complex	
Product code:	T1442	
I.2 Relevant identified uses of the so Identified uses:	ubstance or mixture and uses advised against	
identified uses:	Reagents.	
1.3 Details of the supplier of the safe	ety data sheet	
Supplier: TCI EUROPE N.V.		
Boerenveldseweg 6		
Haven 1063		
B-2070 Zwijndrecht		
Telephone: +32(0)3 735 07	00	
E-mail: sales-eu@tcichemic		
I.4 Emergency telephone number:	+32(0)70 245 245	
SECTION 2: Hazards identificati	ion	
2.1 Classification of the substance of	or mixture	
Flammable solids	Category 2	
Skin corrosion/irritation	Category 2	
• · · · · · · · ·	Cotogon 2	
Serious eye damage/eye irritatio 2.2 Label elements Pictograms or hazard symbols	on Category 2	
2.2 Label elements Pictograms or hazard symbols		
2.2 Label elements	Warning H228-Flammable solid. H315-Causes skin irritation.	
2.2 Label elements Pictograms or hazard symbols Signal word Hazard statements	Warning H228-Flammable solid. H315-Causes skin irritation. H319-Causes serious eye irritation.	No smoking
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2.2 Label elements Pictograms or hazard symbols Signal word Hazard statements	Warning H228-Flammable solid. H315-Causes skin irritation. H319-Causes serious eye irritation. P210-Keep away from heat/sparks/open flames/hot surfaces I P240-Ground/bond container and receiving equipment.	No smoking.
2.2 Label elements Pictograms or hazard symbols Signal word Hazard statements	Warning H228-Flammable solid. H315-Causes skin irritation. H319-Causes serious eye irritation. P210-Keep away from heat/sparks/open flames/hot surfaces I P240-Ground/bond container and receiving equipment. P264-Wash hands and face thoroughly after handling.	No smoking.
2.2 Label elements Pictograms or hazard symbols Signal word Hazard statements	Warning H228-Flammable solid. H315-Causes skin irritation. H319-Causes serious eye irritation. P210-Keep away from heat/sparks/open flames/hot surfaces I P240-Ground/bond container and receiving equipment. P264-Wash hands and face thoroughly after handling. P280-Wear protective gloves, eye protection.	,
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2.2 Label elements Pictograms or hazard symbols Signal word Hazard statements Precautionary statements	Warning H228-Flammable solid. H315-Causes skin irritation. H319-Causes serious eye irritation. P210-Keep away from heat/sparks/open flames/hot surfaces I P240-Ground/bond container and receiving equipment. P264-Wash hands and face thoroughly after handling. P280-Wear protective gloves, eye protection. P302+P352+P332+P313+P362+P364-IF ON SKIN: Wash with p Get medical advice or attention. Take off contaminated clothing P305+P351+P338+P337+P313-IF IN EYES: Rinse cautiously w	plenty of water. If skin irritation occurs and wash it before reuse. vith water for several minutes. Remov
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2.2 Label elements Pictograms or hazard symbols Signal word Hazard statements Precautionary statements 2.3 Other hazards	Warning H228-Flammable solid. H315-Causes skin irritation. H319-Causes serious eye irritation. P210-Keep away from heat/sparks/open flames/hot surfaces I P240-Ground/bond container and receiving equipment. P264-Wash hands and face thoroughly after handling. P280-Wear protective gloves, eye protection. P302+P352+P332+P313+P362+P364-IF ON SKIN: Wash with g Get medical advice or attention. Take off contaminated clothing P305+P351+P338+P337+P313-IF IN EYES: Rinse cautiously w contact lenses, if present and easy to do. Continue rinsing. If ey or attention.	plenty of water. If skin irritation occurs and wash it before reuse. vith water for several minutes. Remov
2.2 Label elements Pictograms or hazard symbols Signal word Hazard statements Precautionary statements 2.3 Other hazards Results of PBT and vPvB assessm	Warning H228-Flammable solid. H315-Causes skin irritation. H319-Causes serious eye irritation. P210-Keep away from heat/sparks/open flames/hot surfaces I P240-Ground/bond container and receiving equipment. P264-Wash hands and face thoroughly after handling. P280-Wear protective gloves, eye protection. P302+P352+P332+P313+P362+P364-IF ON SKIN: Wash with p Get medical advice or attention. Take off contaminated clothing P305+P351+P338+P337+P313-IF IN EYES: Rinse cautiously w contact lenses, if present and easy to do. Continue rinsing. If ey or attention.	plenty of water. If skin irritation occurs and wash it before reuse. vith water for several minutes. Remov

Page 1 of 5

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

3.1 Substances	
Components:	Copper(I) Trifluoromethanesulfonate Benzene Complex
Percent:	>90.0%(T)
CAS RN:	42152-46-5
EC-No:	255-686-6
Synonyms:	Copper(I) Triflate Benzene Complex, Trifluoromethanesulfonic Acid Copper(I) Salt Benzene Complex
Chemical Formula:	CCuF <sub>3</sub> O <sub>3</sub> S · ½C <sub>6</sub> H <sub>6</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. Get medical advice/attention if you feel unwell. Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. 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: Get medical advice/attention if you feel unwell. Rinse mouth. Protection of first-aiders: 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 substance or mixture	Carbon monoxide, carbon dioxide etc
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	pasures
6.1 Personal precautions, protective	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to

SECTION 0. Accidental release met	
6.1 Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc
6.2 Environmental precautions	Prevent product from entering drains
6.3 Methods and materials for containment and cleaning up	Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.
6.4 Reference to other sections	For disposal see section 13.
SECTION 7: Handling and storage	
SECTION 7: Handling and storage 7.1 Precautions for safe handling	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take measures to prevent the build up of electrostatic charge. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.
	dispersion of dust. Keep away from heat/sparks/open flame/hot surfacesNo smoking. Take measures to prevent the build up of electrostatic charge. Wash hands and face thoroughly after handling. Use a

Copper(I) Trifluoromethanesulfonate Benzene Complex

SECTION 8: Exposure controls/personal protection		
8.1 Control parameters	No data available	
8.2 Exposure controls	Install a closed system or local exhaust. Also install safety shower and eye bath.	
Respiratory protection: Hand protection: Eye protection: Skin and body protection:	Dust 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

9.1 Information on basic physical and cl	nemical properties
Physical state (20°C):	Solid
Form:	Crystal - Powder
Colour:	White - Pale reddish yellow
Odour:	No data available
pH:	No data available
Melting point/freezing point:	160°C (dec.)
Boiling point/range:	No data available
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:	<b>N I I I I I I I I</b>
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

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	Spark, Open flame, Static discharge	
10.5 Incompatible materials	Oxidizing agents	

10.6 Hazardous decomposition products Carbon monoxide, carbon dioxide etc

## SECTION 11: Toxicological information

11.1 Information on toxicological effects	
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 LOXICITY	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
12.2 Persistence and degradability	No data available
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 ³/mol):	No data available
12.5 Results of PBT and vPvB assessm	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. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

No data available

SECTION 14: Transport informat	tion	
14.1 UN number	3175	
14.2 UN proper shipping name		
ADR/RID	Solids containing flammable liquid, n.o.s	
IMDG/IMO	Solids containing flammable liquid, n.o.s	
ICAO/IATA	Solids containing flammable liquid, n.o.s	
14.3 Transport hazard class(es)		
ADR/RID	4.1: Flammable solid	
IMDG/IMO	4.1: Flammable solid	
ICAO/IATA	4.1: Flammable solid	
14.4 Packaging group		
ADR/RID	ll	
IMDG/IMO	ll	
ICAO/IATA	II	
14.5 Environmental hazards		
Marine pollutant	-	
14.6 Special precautions for user	No data available	
T1442	Copper(I)	Page 4 of 5

T1442	Copper(I)	Page 4 of s
	Trifluoromethanesulfonate	
	Benzene Complex	

#### 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

T1442	Copper(I)	Page 5 of 5
	Trifluoromethanesulfonate	
	Benzene Complex	