CI TCI EUROPE N.V.

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revi	sion number: 1	Revision date: 10/02/2018
SECTION 1: Identification of the su	Ibstance/mixture and of the company/undertaking	
1.1 Product identifiers		
Product name:	Bis(tetrabutylammonium) Bis(maleonitriledithiolato)nickel(II) Complex	
Product code:	B1371	
1.2 Relevant identified uses of the subs	stance or mixture and uses advised against	
Identified uses:	Reagents.	
1.3 Details of the supplier of the safety	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@tcichemicals	com	
1.4 Emergency telephone number:	+32(0)70 245 245	
SECTION 2: Hazards identification		
2.1 Classification of the substance or n		
Acute toxicity (Oral)	Category 3	
Acute toxicity (Dermal)	Category 3	
Acute toxicity (Inhalation)	Category 3	
Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritation	Category 2	
Respiratory sensitization	Category 1	
Skin sensitization	Category 1	
Carcinogenicity	Category 1A eated exposure [Category 1] Respiratory system	
Signal word	Danger	
Hazard statements	H301+H311+H331-Toxic if swallowed, in contact with skin or if inhaled	t.
	H315-Causes skin irritation.	
	H319-Causes serious eye irritation.	
H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.		if inhaled.
	H317-May cause an allergic skin reaction.	
	H350-May cause cancer. H372-Causes damage to organs through prolonged or repeated expos	sura : Pospiratory system
Precautionary statements	P260-Do not breathe dust/fume/gas/mist/vapours/spray.	sure . Respiratory system
Trecationary statements	P284-Wear respiratory protection.	
P301+P310+P330-IF SWALLOWED: Immediately call a POISON		VTER or doctor. Rinse mouth.
	P302+P352+P312+P361+P364-IF ON SKIN: Wash with plenty of soa	
	CENTER or doctor if you feel unwell. Take off immediately all contami	nated clothing and wash it before
	reuse.	
	P304+P340+P311-IF INHALED: Remove person to fresh air and keep	comfortable for breathing. Call a
	POISON CENTER or doctor. P305+P351+P338+P337+P313-IE IN EVES: Pipee cautiously with wa	ter for several minutes. Pomera
	P305+P351+P338+P337+P313-IF IN EYES: Rinse cautiously with wa contact lenses, if present and easy to do. Continue rinsing. If eye irrita	
	or attention.	
B1371	Bis(tetrabutylammonium)	Page 1 of 5
	Bis(maleonitriledithiolato)nickel(II	
) Complex	

2.3 Other hazards

Results of PBT and vPvB assessmentPBT:Not applicablevPvB:Not applicable

3.1 Substances Components:	Bis(tetrabutylammonium) Bis(maleonitriledithiolato)nickel(II) Complex
Percent:	>97.0%(N)(T)
CAS RN:	18958-57-1
Chemical Formula:	C40H72N6NiS4

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.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.
Ingestion:	Immediately call a POISON CENTER or doctor/physician. 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 measures		
6.1 Personal precautions, protective equipment and emergency procedures	Use extra personal protective equipment (self-contained breathing apparatus). 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.	
6.4 Reference to other sections	For disposal see section 13.	
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. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid all contact!	
7.2 Conditions for safe storage,	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store	

including any incompatibilities away from incompatible materials such as oxidizing agents.

7.3 Specific end use(s) No further relevant information available.

B1371	Bis(tetrabutylammonium)	Page 2 of 5
D1371	Bis(maleonitriledithiolato)nickel(ll	- ago <u>-</u>
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SECTION 8: Exposure controls/personal protection		
8.1 Control parameters JSOH OELs(TWA):	0.1 mg(Ni)/m ³	
8.2 Exposure controls	Install a closed system or local exhaust. Also install safety shower and eye bath.	
Respiratory protection:	Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.	
Hand protection:	Impervious gloves.	
Eye protection:	Safety goggles. A face-shield, if the situation requires.	
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and cl	hemical properties
Physical state (20°C):	Solid
Form:	Crystal - Powder
Colour:	Reddish yellow - Red
Odour:	No data available
pH:	No data available
Melting point/freezing point:	142°C
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]	
Soluble:	Methanol
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	У
10 1 Reactivity	No data available

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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 monoxide, carbon dioxide etc

B1371	Bis(tetrabutylammonium)	Page 3 of 5
	Bis (maleonitriledithiolato) nickel (II	
) Complex	

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 =	Group 1 (Carcinogenic to humans)
NTP =	a (Known to be carcinogens)
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	
12.3 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 assessment		
PBT:	Not applicable	
vPvB:	Not applicable	
12.6 Other adverse effects	No data available	

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.

SECTION 14: Transport information		
3439		
Nitriles, solid, toxic, n.o.s		
Nitriles, solid, toxic, n.o.s		
Nitriles, solid, toxic, n.o.s		
6.1: Toxic substance		
6.1: Toxic substance		
6.1: Toxic substance		
III		
III		
III		
-		
No data available		
Bis(tetrabutylammonium)	Page 4 of 5	
	3439 Nitriles, solid, toxic, n.o.s Nitriles, solid, toxic, n.o.s Nitriles, solid, toxic, n.o.s 6.1: Toxic substance 6.1: Toxic substance III III III III No data available	

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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:	10/02/2018

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

B1371	Bis(tetrabutylammonium)	Page 5 of s
	Bis(maleonitriledithiolato)nickel(II	
) Complex	