TCI EUROPE N.V.

G

SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revis	sion number: 1	Revision date:	10/02/2018
SECTION 1: Identification of the su	bstance/mixture and of the company/undertaking		
1.1 Product identifiers	, , , , , , , , , , , , , , , , , , ,		
Product name: Product code:	4-tert-Butylcalix[4]arene B1809		
1.2 Relevant identified uses of the subs Identified uses:	tance or mixture and uses advised against Reagents.		
1.3 Details of the supplier of the safety of Supplier: TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.			
1.4 Emergency telephone number:	+32(0)70 245 245		
SECTION 2: Hazards identification			
2.1 Classification of the substance or m			
Skin corrosion/irritation	Category 2		
Serious eye damage/eye irritation	Category 2		
2.2 Label elements Pictograms or hazard symbols			
Signal word	Warning		
Hazard statements	H315-Causes skin irritation. H319-Causes serious eye irritation.		
Precautionary statements	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 plenty or Get medical advice or attention. Take off contaminated clothing and war P305+P351+P338+P337+P313-IF IN EYES: Rinse cautiously with wate contact lenses, if present and easy to do. Continue rinsing. If eye irritation or attention.	sh it before reuse. Ir for several minute	s. Remove
2.3 Other hazards			
Results of PBT and vPvB assessmen			
PBT:	Not applicable		
vPvB:	Not applicable		
SECTION 3: Composition/informati	on on ingradiants		
3.1 Substances			
Components:	4-tert-Butylcalix[4]arene		
Percent:	>98.0%(HPLC)		
CAS RN:	60705-62-6		
Synonyms:	Tetra-tert-butyl(tetrahydroxy)calix[4]arene		
Chemical Formula:	C44H56O4		

SECTION 4: First aid measures	
4.1 Description of first aid measure	S
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

CECTION E. Einsfighting managemen		
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 dioxide, Carbon monoxide	
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 mea	asures	
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.	
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 local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.	
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool and dark place. Store away from incompatible materials such as oxidizing agents.	
7.3 Specific end use(s)	No further relevant information available.	
SECTION 8: Exposure controls/pers	SECTION 8: Exposure controls/personal protection	
8.1 Control parameters	No data available	
8.2 Exposure controls	Install a closed system or local exhaust as possible so that workers should not be exposed directly. 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 cr	
Physical state (20°C):	Solid
Form:	Crystal - Powder
Colour:	White - Pale yellow
Odour:	No data available
pH:	No data available
Melting point/freezing point:	No data available
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:	
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	
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	No data available
10.5 Incompatible materials	Oxidizing agents

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide

SECTION 11: Toxicological informa	ation
11.1 Information on toxicological effects	S
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

CECTION 12 Englaging informer	lion	
SECTION 12: Ecological information 12.1 Toxicity	10/1	
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 assess	ment	
PBT:	Not applicable	
vPvB:	Not applicable	
12.6 Other adverse effects	No data available	
SECTION 13: Disposal considera	tions	
	sult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when	
SECTION 14: Transport informati	on	
14.1 UN number	Not listed	
14.2 UN proper shipping name		
ADR/RID	Not listed	
IMDG/IMO	Not listed	
ICAO/IATA	Not listed	
14.3 Transport hazard class(es)		
ADR/RID	Does not correspond to the classification standard of the United Nations	
IMDG/IMO	Does not correspond to the classification standard of the United Nations	
	Does not correspond to the classification standard of the Onited Nations	
ICAO/IATA	Does not correspond to the classification standard of the United Nations	
14.4 Packaging group		
14.4 Packaging group		
14.4 Packaging group ADR/RID		

14.5 Environmental hazards	
Marine pollutant	

14.6 Special precautions for user No data available

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