SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revis	ion number: 1	Revision date:	10/02/2018
SECTION 1: Identification of the sub	ostance/mixture and of the company/undertaking		
1.1 Product identifiers			
Product name:	Calciferol		
Product code:	C0005		
1.2 Relevant identified uses of the subst Identified uses:	ance or mixture and uses advised against Reagents.		
1.3 Details of the supplier of the safety d Supplier: TCI EUROPE N.V. Boerenveldseweg 6 Haven 1063 B-2070 Zwijndrecht Telephone: +32(0)3 735 07 00 E-mail: sales-eu@tcichemicals.cd			
1.4 Emergency telephone number:	+32(0)70 245 245		
SECTION 2: Hazards identification			
2.1 Classification of the substance or mi Acute toxicity (Oral) Acute toxicity (Dermal) Acute toxicity (Inhalation) Specific target organ toxicity - Repe	Category 3 Category 3 Category 2		
2.2 Label elements Pictograms or hazard symbols			
\mathbf{v}			
Signal word	Danger		
Hazard statements	H330-Fatal if inhaled. H301+H311-Toxic if swallowed or in contact with skin.		
	H372-Causes damage to organs through prolonged or repeated exposure	2	
Precautionary statements	 P260-Do not breathe dust/fume/gas/mist/vapours/spray. P284-Wear respiratory protection. P280-Wear protective gloves, protective clothing. P301+P310+P330-IF SWALLOWED: Immediately call a POISON CENTE P302+P352+P312+P361+P364-IF ON SKIN: Wash with plenty of soap ar CENTER or doctor if you feel unwell. Take off immediately all contaminate reuse. P304+P340+P310-IF INHALED: Remove person to fresh air and keep co Immediately call a POISON CENTER or doctor. 	R or doctor. Rinse nd water. Call a PC ed clothing and wa	ISON sh it before
2.3 Other hazards			
Results of PBT and vPvB assessment			
PBT:	Not applicable		
vPvB:	Not applicable		

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SECTION 3: Composition/information on ingredients 3.1 Substances

3.1 Substances	
Components:	Calciferol
Percent:	>98.0%(HPLC)
CAS RN:	50-14-6
EC-No:	200-014-9
Synonyms:	Ergocalciferol, Vitamin D2
Chemical Formula:	C ₂₈ H ₄₄ O

SECTION 4: First aid measures 4.1 Description of 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. Rinse skin with water/shower. 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:	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

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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	Carbon dioxide, Carbon monoxide
substance or mixture	
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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
	to wear personal protective equipment
SECTION 6: Accidental release mea	asures
6.1 Personal precautions, protective	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to
equipment and emergency procedures	non-involved personnel should be controlled around the leakage area by roping off, etc
equipment and emergency procedures	
6.2 Environmental precautions	Prevent product from entering drains
P	
6.3 Methods and materials for	Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected
containment and cleaning up	material should be promptly disposed of, in accordance with appropriate laws and regulations.
2 .	
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 contact with skin, eyes and clothing.
7.2 Conditions for safe storage,	Keep container tightly closed. Store in a refrigerator. Store under inert gas.
including any incompatibilities	Store locked up. Store away from incompatible materials such as oxidizing agents.
	Heat-sensitive, Light-sensitive, Air-sensitive
7.3 Specific end use(s)	No further relevant information available.

SECTION 8: Exposure controls/personal protection	
No data available	
Install a closed system or local exhaust. Also install safety shower and eye bath.	
Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.	
Impervious gloves.	
Safety goggles. A face-shield, if the situation requires.	
Impervious protective clothing. Protective boots, if the situation requires.	

SECTION 9: Physical and chemical properties

1 Information on basic physical and cl	
Physical state (20°C):	Solid
Form:	Crystal - Powder
Colour:	White
Odour:	No data available
pH:	No data available
Melting point/freezing point:	114°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]	Insoluble
[Other solvents]	
Soluble:	Ether, Alcohols, Chloroform
Partition coefficient: n-octanol/water:	No data available
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available
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 information

11.1 Information on toxicological effects	i
Acute Toxicity:	orl-mus LD50:23700 ug/kg
	orl-rat LD50:10 mg/kg
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:	scu-rat TDLo: 17500 ug/kg (1-7D preg) ims-rbt TDLo: 17500 ug/kg (1-28D preg) orl-rat TDLo: 22500 ug/kg (13-21D preg)
STOT-single exposure:	No data available
STOT-repeated exposure:	No data available
Aspiration hazard:	No data available
RTECS Number:	KE1050000

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 assessme	ent
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	ion	
14.1 UN number	2811	
14.2 UN proper shipping name		
ADR/RID	Toxic solid, organic, n.o.s	
IMDG/IMO	Toxic solid, organic, n.o.s	
ICAO/IATA	Toxic solid, organic, n.o.s	
14.3 Transport hazard class(es)		
ADR/RID	6.1: Toxic substance	
IMDG/IMO	6.1: Toxic substance	
ΙCAO/ΙΑΤΑ	6.1: Toxic substance	
14.4 Packaging group		
ADR/RID	11	
IMDG/IMO	11	
ΙCAO/ΙΑΤΑ	II	
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 shorage. 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