SAFETY DATA SHEET

C TW 19

1 IDENTIFICATION OF THE MIXTURE AND THE COMPANY

1.1 Product identifier

Product name	CTW 19

1.2 Relevant identified uses of the substance or mixture and uses advised against

Description/Application	Catalyst for Microsynth Marble cycle

1. 3 Details of the Australian importer

Name:	Calce Company Pty Ltd
Full address:	24/13-15 Baker Street, Banksmeadow NSW 2019, Australia
Phone:	+61 2 9666 4492
E-mail address:	info@calcecompany.com

Details of the manufacturer and supplier of the safety data sheet

Name:	Bericalce Srl
Full address:	Via Piave 23, 36033 Isola Vicentina (VI), Italy
Phone:	+39 0444 929102
E-mail address of the competent person:	info@bericalce.com

1.4 Emergency telephone number

For urgent inquiries refer to:	Emergency Services (Australia) 000
	Poisons Information Centre (Australia) 13 11 26 (24 h / 7 days)

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

The product is classified as dangerous pursuant to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments). The product therefore requires a safety data sheet compliant with the provisions of Regulation (EU) 2015/830. Any additional information regarding risks to health and / or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indications:

Acute toxicity, category 4	H332 Harmful if inhaled.
Specific target organ toxicity - single exposure, category 3	H335 May cause respiratory irritation.
Skin sensitization, category 1	H317 May cause an allergic skin reaction.

2.2 Label elements

Danger labeling under Regulation (EC) 1272/2008 (CLP) and subsequent amendments.

Danger

Hazard statements:

H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
EUH204	Contains isocyanates. It can cause an allergic reaction.

Precautionary advice:

P280 Wear protective gloves.

P261	Avoid breathing dust / fume / gas / mist / vapors / spray.
P312	Call a POISON CENTER / doctor / if you feel unwell. . .
P403 + P233	Keep container tightly closed and in a well-ventilated place.
P362 + P364	Remove contaminated clothing and wash before wearing again.
Contains:	HDI oligomers, iminooxadiazindione

Product not intended for the uses envisaged by Dir. 2004/42 / EC.

2.3 Other dangers

Based on available data, the product does not contain any PBT or vPvB substances as more than 0,1%

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

No relevant information.

3.2 Miscele

It contains:

Identification	Conc.%.	Classification 67/548 / EEC. Classification 1272/2008 (CLP).
5-HDI oligomers, iminooxadiazindione		
CAS. 28182-81-2	0 ≤ x < 0,0015	Acute Tox. 4 H332, STOT SE 3 H335, Skin Sens. 1 H317
CE 500-060-2		
INDEX		
Nr. Reg. 01-2119488934-20		

The full text of the hazard statements (H) is given in section 16 of the sheet.

4 FIRST AID MEASURES

4.1 Description of first aid measures

EYES: Remove any contact lenses. Wash immediately and abundantly with water peR
at least 15 minutes, opening the eyelids well. Consult a physician if the problem persists.
SKIN: Take off contaminated clothing. Wash immediately and abundantly with water.
If irritation persists, consult a doctor. Wash the contaminated garments before reusing them.
INHALATION: Take the person to fresh air. If breathing is difficult, call a doctor right away.
INGESTION: Get medical attention immediately. Induce vomiting only on medical advice. Do not administer nothing orally if the subject is unconscious and if not authorized by the doctor.
Most important symptoms and effects, both acute and delayed

4.2 Most important symptoms and effects, both acute and delayed.

For symptoms and effects caused by the contained substances, see chap. 11.

4.3 Indication of any immediate medical attention and special treatment needed.

No specific information on symptoms and effects caused by the product is known.

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be conventional: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
Nothing in particular.

5.2 Special hazards arising from the substance or mixture

HAZARDS CAUSED BYEXPOSURE IN THE EVENTOF FIRE
Do not breathe combustion products.

5.3 Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the cointainers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contamined water used for extinction and the remains of the fire according to applicable regulations.
EQUIPMENT
Normal clothing for firefighting, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and fire brigade boots (HO A29 or A30).

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Block the loss if there is no danger. Wear suitable protective equipment (including personal protective equipment referred to in section 8 of the safety datas sheet) to prevent any contmination of skin, eyes and personal clothing. These direction are valid both for the workers to work which for emergency interventions.

6.2 Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface or ground water.

6.3 Methods and material for containment and cleaning up

Draw product spilled in suitable container. Asses the compatibility of the container to be used with the product, verifying section 10. Absorb the remaining inert absorbent material.
Ensure adequate ventilation of the place affected by the loss.
The disposal of contaminated material must be made in accordance with section 13.

6.4 Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle the product after consulting all the other sections of this safety data sheet.
Avoid the dispersion of the product into the environment. Do not eat, drink or smoke during use.
Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in the original container.
Keep the containers closed, in a well-ventilated place, away from direct sunlight.
Keep containers away from any incompatible materials, checking section 10.

7.3 Specific end use(s)

None in particular. Keep only in the original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

HDI OLIGOMERS, IMINOOXADIAZINDIONE

Predicted No Effect Concentration on the Environment - PNEC.
Reference value in fresh water 490 mg / l
Reference value in fresh water 0.1 mg / l
Reference value in sea water 0.01 mg / l
Reference value for sediment in fresh water 2530 mg / kg
Reference value for sediments in sea water 253 mg / kg
Reference value for the terrestrial compartment 505 mg / kg
Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of Exposure	Local acute	Systemic acute	Local chronic	Systemic chronic	Local acute	Systemic acute	Local chronic	Systemic chronic
Inhalation					1 mg / m3		0.5 mg / m3	

VND = hazard identified but no DNEL / PNEC available; NEA = no exposure expected; NPI = no hazard identified.

8.2 Exposure controls

Considering that the use of adequate technical measures should always have priority over personal protective equipment, ensure good ventilation in the workplace
through effective local aspiration. For the choice of personal protective equipment ask
possibly advice to your chemical suppliers. Personal protective equipment must bear the CE mark which certifies their compliance with current regulations.
Provide an emergency shower with face and eye basin.
HAND PROTECTION
Protect your hands with work gloves, category III (ref. standard EN 374).
Final selection of the material of the gloves must be considered: compatibility, degradation, breakage times and permeation.
In the case of preparartions the resistance of protective gloves to chemicals should be checked before use, as it expected.
The gloves' limit depends on the duration and method of use.
SKIN PROTECTION
Wear work clothes with long sleeves and safety footware for professional use category II (ref. Directive 89/686/EEC and law EN ISO 20344). Wash with soap and water after removing protective clothing.
EYE PROTECTION
We reccomend wearing hood visor or protective visor together with airtight goggles (ref. law EN 166).
RESPIRATORY PROTECTION
In case of exceeding the threshold value (eg. TLV-TWA) of the substance or one or more of the substances contained on the product, you should wear a mask with filter Type A, whose class (1, 2 or 3) must be chosen according to the limit concentration of use (ref. standard EN 14387).
In the case there will be be gas or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.) should be provided for combined type filters.
The use of respiratory protective equipment is necessary in case the technical measures are not sufficient to limit the exposure of the worker to the threshold values considered.
The protection provided by masks is in any case limited.
In case that the substance in question is odorless or its olfactory threshold is higher than the related TLV-TWA, and in case of emergency, it is important to wear a compressed air breathing apparatus open circuit (ref Standard EN 137) or a respirator in socket outdoor air (ref. standard EN 138).
For the correct choice of respiratory protection device, refer to EN 529.
ENVIRONMENTAL EXPOSURE CONTROLS.
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Milky White
Odour	Colorless
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range .	Not available
Flash point	> 250 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	Not available
Upper infiammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	1,16
Solubility	Not available
Partition coefficient:: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

9.2 Other information

Not available

10 STABILITY AND REACTIVITY

10.1 Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2 Chemical stability

The product is stable in normal conditions of use and storage.

10.3 Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4 Conditions to avoid

None in particular. However, follow the usual precautions against chemicals.

10.5 Incompatible materials

Information not available

10.6 Hazardous decomposition products

Information not available

11 TOXICOLOGICAL INFORMATION

In the absence of experimental toxicological data on the product itself, the possible health hazards of the product were evaluated based on the properties of the substances containde, according to the criteria laid down by the relevant regulations for the classification.
Therefore, consider the concentration of each hazardous substances possibly mentioned in sect. 3, to assess toxicological effects resulting from exposure to the product.

11.1 Information on toxicological effects

Metabolism, kinetics, mechanism of action and other information
Information not available
Information on likely routes of exposure
Information not available
Delayed and immediate effects and chronic effects from short and long term exposure
Information not available
Interactive effects
Information not available
ACUTE TOXICITY

ATE (Inhalation) of the mixture: 11.00 mg / l
ATE (Oral) of the mixture: Not classified (no relevant component)
ATE (Dermal) of the mixture: Not classified (no relevant component)
HDI oligomers, iminooxadiazindione

LD50 (Oral)> 2000 mg / kg Rat
LD50 (Dermal)> 2000 mg / kg Rar
LC50 (Inhalation) 0.39 mg / l / 4h Rat

SKIN CORROSION / SKIN IRRITATION
It does not meet the classification criteria for this hazard class
SERIOUS EYE DAMAGE / EYE IRRITATION
It does not meet the classification criteria for this hazard class
RESPIRATORY OR SKIN SENSITIZATION
Skin sensitizer
MUTAGENICITY ON GERMINAL CELLS
It does not meet the classification criteria for this hazard class
CARCINOGENICITY
It does not meet the classification criteria for this hazard class
REPRODUCTION TOXICITY
It does not meet the classification criteria for this hazard class
SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE
It can irritate the respiratory tract
SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE
It does not meet the classification criteria for this hazard class
DANGER IN CASE OF SUCTION
It does not meet the classification criteria for this hazard class

12 ECOLOGICAL INFORMATION

Use according to good working practices, avoiding to disperse the product in the environment. Notify the competent authorities if the product has reached waterways or if it has contaminated the soil or vegetation.

12.1 Toxicity

HDI oligomers, iminooxadiazindione
LC50 - Fish> 100 mg / l / 96h Danio rerio
EC50 - Crustaceans> 100 mg / l / 48h Daphnia magna

12.2 Persistence and degradability

HDI oligomers, iminooxadiazindione
NOT rapidly degradable

12.3 Bioaccumulative potential

Information not available

12.4 Mobility in soil

Information not available

12.5 Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%

12.6 Other adverse effects

Information not available

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Reuse, when possible. Neat product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evalueted according to applicabile regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14 TRANSPORT INFORMATION

The product must not be considered dangerous according to the provisions in force concerning the transport of dangerous goods by road (A.D.R.), by rail (RID), by sea (IMDG Code) and by air (IATA).

14.1 ONU number

Not applicable.

14.2 ONU shipping name

Not applicable.

14.3 Hazard classes connected to shipping

Not applicable.

14.4 Packaging group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for users

Not applicable.

14.7 Shipping of bulk according to MARPOL 73/78 annex and the IBC code

No relevant information.

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category None
Restrictions relating to the product or contained substances pursuant to AnnexXVII to EC Regulation 1907/2006 Point 3
Substances in Candidate List (Art. 59 REACH): None
Substances subject to authorisarion (Annex XIV REACH): None
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None
Substances subject to the Rotterdam Convention: None
Substances subject to the Stockholm Convention: None
Healthcare controls Informations not available
Workers exposed to this chemical dangerous to health must be monitored health carried out in accordance with the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the safety and health of the worker has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

15.2 Chemical safety assessment

A chemical safety assessment has not been developed for the mixture / substances indicated in section 3.

16 OTHER INFORMATIONS

Text of hazard (H) indications mentioned in sections 2-3 of the sheet:
Acute Tox. 4 Acute toxicity, category 4
STOT SE 3 Specific target organ toxicity - single exposure, category 3
Skin Sens. 1 Skin sensitization, category 1
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H317 May cause an allergic skin reaction.
EUH204 Contains isocyanates. It can cause an allergic reaction.
LEGEND:
- ADR: European agreement for the transport of dangerous goods by road
- CAS NUMBER: Number of the Chemical Abstract Service
- EC50: Concentration that gives effect to 50% of the population subject to testing
- CE NUMBER: Identification number in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived no effect level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System for Classification and Labeling of Chemicals
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Concentration of immobilization of 50% of the population subject to testing
- IMDG: International maritime code for the transport of dangerous goods
- INDEX NUMBER: Identification number in Annex VI of CLP- LC50: Lethal concentration 50%
- LD50: Lethal Dose 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulating and toxic according to REACH
- PEC: Predicted environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predicted No Effect Concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation for the international transport of dangerous goods by train
- TLV: Threshold Limit Value

- TLV CEILING: Concentration that must not be exceeded during any time of occupational exposure.
- TWA STEL: Short term exposure limit
- TWA: Weighted average exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulating according to REACH
- WGK: Water hazard class (Germany).

GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
3. Regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA Agency website
- Database of SDS models of chemical substances - Ministry of Health and National Institute of Health

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations.
The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.

BeriCalce S.r.l.
Via Piave, 23 - 36033 Isola Vicentina (VI)
Tel. +39 (0)444 929102
info@bericalce.com
bericalce.com

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