



Dependable Precision

Material Safety Data Sheet 14/12/2023, Rev.1

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation(EU) No. 2020/878

SECTION 1 Identification of the substance/mixture and of the company

1.1. Product identifier

Product name: Excision Biocide Maintenance
Type of product: Biocidal product for industrial use.
Code n°: 84624

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

1.3. Details of the supplier of the safety data sheet

Manufacturer: Excision
Address: 35 Peck Street, Hamilton VIC 3300 Australia
Tel: +61 (0)3 5551 4555
Fax: Not Available
E-mail: info@excision.com.au

1.4. Emergency telephone number

Tel: +61 (0)3 5551 4555



SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification in accordance with Regulation (EU) No. 1272/2008~2022/692 (CLP):

DANGER:

Acute Tox. (inh.) 2:H330|Acute Tox. (oral) 4:H302|Eye Irrit. 2:H319|Skin Sens. 1:H317|
STOT RE 1:H372

Danger class	Classification of the substance	Cat.	Routes of exposure	Target organs	Effects
Physicochemical: Not classified					
Human health:  	Acute Tox. (inh.) 2: H330 Acute Tox. (oral) 4:H302 Eye Irrit. 2: H319 Skin Sens. 1: H317 STOT RE 1: H372	Cat.2 Cat.4 Cat.2 Cat.1 Cat.1	Inhalation Ingestion Eyes Skin Inhalation	- - Eyes Skin Systemic	Dead Harmful Irritation Allergy Damage
Environment : Not classified					

2.2. Label elements

Symbols:



Signal word

Danger



Hazard statement(s):

H330 Fatal if inhaled.

H372 Causes damage to respiratory system through prolonged or repeated exposure if inhaled.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

Precautionary statements:

P102-P405 Keep out of reach of children. Store locked up.

P337+P313 If eye irritation persists: Get medical advice/attention.

P280 Wear protective gloves, clothing and eye protection. In case of inadequate ventilation wear respiratory protection.

P363 Wash contaminated clothing before reuse.

P303+P361+P353- P352-P312 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash with plenty of water and soap.. Call a POISON CENTER or doctor if you feel unwell.

P304+P340-P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

P305+P351+P338- P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

P403+P233+P405 Store in a well-ventilated place. Keep container tightly closed. Store locked up.

P501 Dispose of contents/container in accordance with local regulations

Contains:

2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol

May produce an allergic reaction.

2.3. Other hazards

Hazards which do not result in classification but which may contribute to the overall hazards of the substance:

- Other physicochemical hazards:

No other relevant adverse effects are known.

- Other adverse human health effects:

No other relevant adverse effects are known.

- Other negative environmental effects:

Do not fulfil the PBT/vPvB criteria. Endocrine disrupting properties:

This product does not contain substances with endocrine disrupting properties identified or under evaluation.

SECTION 3 Composition/information on ingredients

3.1. Substances

CAS No. Designation: 4719-04-4

2,2',2''-(Hexahydro-1,3,5-triazin-1,3,5-triyl) triethanol



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- Identification number(s):
- EC number: 225-208-0
- Index number: 613-114-00-6

3.2. Mixtures

Dangerous substances according to CLP Regulation and corresponding classification:

Not applicable (substance).

SECTION 4 First aid measures

4.1. Description of first aid measures

Note: Personal protection for the First Aider.

After inhalation:

Supply fresh air.

Supply fresh air; consult doctor in case of symptoms.

· After skin contact

Remove contaminated clothing immediately.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

· After eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Consult an eye specialist.

· After swallowing:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF SWALLOWED: Immediately call a POISON CENTER/ doctor

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

None

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

If swallowed, gastric irrigation with activated carbon

SECTION 5 Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing agents: Water spray jet, extinguishing powder, CO₂, foam.
- Unsuitable extinguishing agents for reasons of safety: None
- Emergency Action Code / Hazchem-Code: 2X

5.2. Special hazards arising from the substance or mixture

In case of fire, toxic incineration products may be released such as:
toxic gases/fumes



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Formaldehyde (HCHO)

5.3. Advice for firefighters

- Protective equipment: Wear self-contained breathing apparatus.
- Additional information Collect contaminated fire fighting water separately. It must not enter drains

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Hi risk of slipping on leaked/spilled product.

Wear personal protective equipment (see item 8).

Keep unprotected persons away.

When selecting the protective suit attention has to be paid to the complete and safe protection of skin and mucous membranes. Impermeable protective clothes, protective boots made of neoprene, complete face protection and nitrile-rubber-gloves with long tops should be worn.

6.2. Environmental precautions

As the product is hazardous for the aquatic environment, it must be prevented from reaching surface water.

Inform authorities in case of contamination of water or sewage system.

6.3. Methods and material for containment and cleaning up

Collect large amounts in suitable container. Cover the rest with absorbent, mix intensively and collect mechanically.

Suitable binder: multi-purpose absorbent.

Dispose of contaminated material as waste according to item 13.

Provide adequate ventilation

6.4. Reference to other sections

See sections 8 and 13.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Avoid pollution of the air at the workplace, caused e. g. by aerosol formation or by product heating.

Provide good room ventilation or local exhaust ventilation at the workplace.

Handle product in closed systems preferably.

Clean contaminated work equipment immediately to avoid skin corrosion/-irritation and/or allergic skin reactions in case of unconscious skin contact.

Assess hazards arising from work equipment and work places.

- Information about protection against explosion and fire: No special measures required



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7.2. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and containers:

Ensure sufficient ventilation.

Should be stored in the delivery-container preferably.

Keep containers tightly sealed.

Information about suitable materials for vessels and piping can be requested from our sales department: Tel.: +44(0)1606 818800.

· Information about storage in a common storage facility: Do not store together with acids.

· Further information about storage conditions: Store in a cool place.

· Maximum storage temperature: 40° C.

· Minimum storage temperature: -5 °C

7.3. Specific end use(s)

No particular uses

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

50-00-0 Formaldehyde

NES

Short-term value: 2.5 mg/m³, 2 ppm

Long-term value: 1.2 mg/m³, 1 ppm

Sen

WES

Short-term value: 2.5 mg/m³, 2 ppm

Long-term value: 1.2 mg/m³, 1 ppm

Sen

8.2. Exposure controls

Technical protective equipment:

In case of contamination devices to rinse eyes or skin immediately under running water must be available.

· Personal protective equipment

· General protective and hygienic measures:

Use skin cream for skin protection.

Avoid contact with the eyes and the skin.

Do not breathe mist/vapours/spray.

Wash hands during work breaks and at the end of the shift.

Provide skin protection plan.

· Respiratory protection:

Filtertype A for organic vapour, boiling point > 65°C.

Use respiratory equipment if the OEL is exceeded.

· Hand protection:

Chemical protective gloves (EN ISO 374-1:2016)



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Wear protective gloves with long gauntlets preferably.

Check the condition of protective gloves after each use for any damages like holes, cuts or tears.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Do not wear protective gloves longer than necessary.

- Material of gloves Nitrile rubber, NBR

- Penetration time of glove material:

Thickness: 0.4 mm; break-through time: 480 min; material: Nitrile; permeation: level 6

- Gloves made of the following materials are not suitable:

Gloves for mechanical protection do not provide protection against chemicals.

Eye protection:

Safety glasses (EN 166)

Body protection

Protective clothing (EN 14605:2009-08)

Risk management measures

The operators shall be instructed adequately.

The workplace shall be inspected regularly by competent personnel e.g. the safety representative.

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Property	Value
Appearance and color:	Transparent liquid, colourless to pale yellow
Smell:	Characteristic
Odor threshold:	N.D.
pH (2g/l):	9.0 – 11.0
Melting point / freezing point:	N.A.
Initial point and boiling range:	110.5°C
Flash point;	N.D.
Evaporation rate:	N.D.
Flammability (solid / gas);	N.A.
Upper / lower limit of flammability or explosiveness	N.D.
Vapor pressure:	N.D.
Vapor density:	< 0.0000005 hPa (calc.)
Density (20°C):	1.14-1.17 g/cm ³
Solubility (s);	In water emulsifiable
Solubility in oil:	N.D.
N-octanol / water partition coefficient;	N.D.
Spontaneous ignition temperature	N.D.



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Decomposition temperature:	N.D.
Viscosity: dynamic at 20 °C: kinematic at 20 °C:	300-600 mPas (DIN EN ISO 3219) 260-520 mm ² /s
Explosive properties:	N.D.
Combustive properties:	N.D.
Particle characteristics:	
Particle size:	-

9.2. Additional information

SECTION 10 Stability and reactivity

10.1. Reactivity

The product is stable under the conditions

10.2. Chemical stability

- Conditions to be avoided: No decomposition if used and stored according to specifications.
- Minimum shelf life: 12 months from production date, if stored at a temperature of about 20°C

10.3. Possibility of hazardous reactions

No dangerous reactions known

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

Acids

10.6. Hazardous decomposition products

None, if storage and handling is done according to specification

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Dose and lethal concentrations for individual ingredients:	DL50 (OECD401) mg/kg bw Oral	DL50 (OECD402) mg/kg bw Cutaneous	CL50 (OECD403) mg/m ³ ·4h Inhalation
222-(hexahydro-135-triazine-135-triyl) triethanol	> 1000 Rat	4000 Rat	> 371 Rat
Estimates of acute toxicity (ATE) for individual ingredients:	ATE mg/kg bw Oral	ATE mg/kg bw Cutaneous	ATE mg/m ³ ·4h Inhalation
222-(hexahydro-135-triazine-135-triyl) triethanol	> 1000	-	> 500 Vapours

Evaluation:

- Skin corrosion/irritation: Based on available data, the classification criteria are not met.



Results of studies:	
OECD 404	(rabbit) not irritating - S 193

Serious eye damage/irritation:

Causes serious eye irritation.

Results of studies:	
OECD 405	(rabbit) irritating - literature

Sensitisation:

May cause an allergic skin reaction.

Results of studies:	
Open Epicutaneous Test	(Guinea pig) sensitising - literature

- CMR effects from tests (carcinogenicity, mutagenicity and toxicity for reproduction):
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure:
Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.
- Aspiration hazard: Based on available data, the classification criteria are not met

SECTION 12 Ecological information

12.1. Toxicity

Aquatic toxicity:	
EC ₅₀ / 72 h (static)	6.7 mg/l (Desmodesmus subspicatus) (Richtlinie 92/69/EWG, C.3)
EC ₅₀ / 48 h	literature 11.9 mg/l (Daphnia) (OECD 202)
LC ₅₀ / 96 h	literature 16 mg/l (Brachydanio rerio) (OECD 203)
	literature

Evaluation:

Based on the available data the classification criteria for hazard classes aquatic acute (short term) toxicity are not fulfilled.

Based on the available data the classification criteria for hazard classes aquatic, chronic (long term) toxicity are not fulfilled.

Toxicity on activated sludge organisms	
EC ₂₀ / 0.5 h	170 mg/l (OECD 209) literature

Evaluation:

If contaminated effluent water is properly entered into the sewage system, any interference with the degrading activity of the activated sludge organisms is not expected.



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12.2. Persistence and degradability

Method:

Rapid degradability of organic substances	
OECD 301 A DOC Die-Away-Test	>90 % (8 d) literature

- Evaluation: The component(s) is (are) rapidly degradable.
- Behaviour in sewage treatment plants:
- Evaluation: The component(s) is (are) biodegradable in activated sludge units

12.3. Bioaccumulative potential

BCF / LogKow:	
4719-04-4 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	
OECD 117 Log Kow Partition Coefficient	≤2 (n-octanol/water)

Evaluation: Not worth-mentioning accumulating in organisms

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

PBT: This mixture does not contain substances that meet the PBT-criteria of REACH, annex XIII.

vPvB: This mixture does not contain substances that meet the vPvB-criteria of REACH, annex XIII

12.6. Other adverse effects

None

12.7. Additional information

- Chemical Oxygen Demand (COD-value): 1120 mg O₂/g product
- Biological oxygen demand (BOD₅-value): 800 mg/g
- Metals and their compounds (Directive 2006/11/EC): None
- European Water Framework Directive (2000/60/EC):

The product does not contain any priority substances according WFD that require a water monitoring.

- Absorbable organic halogen compounds (AOX - DIN EN ISO 9562 H 14):

The product does not contain substances, which can influence the AOX of waste water

SECTION 13 Disposal considerations

13.1 Waste treatment methods

- Recommendation Hazardous waste. Separate waste disposal to be applied.
- Contaminated packaging:
- Recommendation: Packaging can be reused or recycled after cleaning.
- Recommended cleaning agent: Water, if necessary with cleaning agent.



SECTION 14 Transport information

- 14.1. UN number or ID number
UN2810
- 14.2. UN proper shipping name
TOXIC LIQUID, ORGANIC, N.O.S. (2,2',2''-
(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol)
- 14.3. Transport hazard class(es)
6.1
- 14.4. Packing group
II
- 14.5. Environmental hazards
N.A
- 14.6. Special precautions for user
N.A.
- 14.7. Maritime transport in bulk according to IMO instruments
N.A

SECTION 15 Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents during work)

Dir 2000/39/EC (Occupational Exposure Limits)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (UE) n. 758/2013

Regulation (UE) n. 2020/878

Regulation (UE) n. 286/2011 (ATP 2 CLP)

Regulation (UE) n. 618/2012 (ATP 3 CLP)

Regulation (UE) n. 487/2013 (ATP 4 CLP)

Regulation (UE) n. 944/2013 (ATP 5 CLP)

Regulation (UE) n. 605/2014 (ATP 6 CLP)

Regulation (UE) n. 2015/1221 (ATP 7 CLP)

Regulation (UE) n. 2016/918 (ATP 8 CLP)

Regulation (UE) n. 2016/1179 (ATP 9 CLP)

Regulation (UE) n. 2017/776 (ATP 10 CLP)

Regulation (UE) n. 2018/669 (ATP 11 CLP)

Regulation (UE) n. 2018/1480 (ATP 13 CLP)

Regulation (UE) n. 2019/521 (ATP 12 CLP)

Regulation (UE) n. 2020/217 (ATP 14 CLP)

Regulation (UE) n. 2020/1182 (ATP 15 CLP)

Regulation (UE) n. 2021/643 (ATP 16 CLP)

Regulation (UE) n. 2021/849 (ATP 17 CLP)



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Regulation (UE) n. 2022/692 (ATP 18 CLP)

Restrictions relating to the product or contained substances according to Annex XVII of Regulation (EC) 1907/2006 (REACH) and subsequent amendments:

None.

Where applicable, refer to the following standards:

Directive 2012/18/EU (Seveso III).

Regulation (EC) No 648/2004 (detergents).

Dir.2004/42/CE (directive COV)

Provisions on EU Directive 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1.

None

15.2. Chemical safety assessment : None

SECTION 16 Other information

This document has been prepared by a competent person who has received adequate training

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinhold

CCNL - Allegato 1 "TLV of 1989-90"

Indicate additional literature consulted

The information contained here is based on our knowledge at the date indicated above. It refers solely to the product indicated and constitutes no guarantee of particular quality.

The user must ensure the adequacy and accuracy of this information in relation to the specific use of the product should do.

This MSDS cancel and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS = Chemical Abstracts Service (American Chemical Society).

CLP: Classification, labeling, packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

ETA: Estimation of acute toxicity

ETAmix: Estimation of acute toxicity (mixtures)

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of classification and labeling of chemicals.

IATA: International Air Transport Association.

IATA-DGR: Standards applied to dangerous goods by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation.

ICAO-TI: Technical Instructions "Organization International Civil Aviation" (ICAO).

IMDG: International Maritime Dangerous Goods.



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INCI: International Nomenclature of Cosmetic Ingredients.

KST: coefficient explosion.

LC50: Lethal concentration for 50% of the exposed population.

LD50: Lethal dose for 50% of the exposed population.

LTE: Long-term exposure.

PNEC: predicted no effect concentration

RID: Regulations concerning the international carriage of dangerous goods by rail.

STE: Short-term exposure.

STEL: level of short-term exposure.

STOT: Specific target organ toxicity.

TLV: Threshold Limit Value.

TWATLV: threshold limit value time weighted average of eight hours per day (Standard ACGIH).

WGK: Hazard class for water (Germany).