

Product Name: Robtec Cutting Discs

1. Identification of Substance & Company

Product

Product name Robtec Cutting Discs

Other names/product codes Not assigned

HSNO approval

This product is a manufactured article and does not require HSNO

NA

approval. However the following SDS is relevant for fine dust created whilst

working with the Cutting discs (e.g. grinding).

Approval description The relevant approval code for the dust created is HSR002612.

UN number
Proper Shipping Name

Proper Shipping Name NA
DG class NA
Packaging group NA
Hazchem code NA

Uses Marking crayon

Company Details

Company Toolware Sales LTD
Address 3 Stonedon Drive

East Tamaki Auckland 2013 +64 9 579 8080

 Telephone
 +64 9 579 8080

 Website
 www.toolware.co.nz

2. Hazard Identification

Approval

Robtec Cutting discs are manufactured articles. Dust created when using this product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002612, Metal Industry Products (Subsidiary Hazard) Group Standard 2020).

GHS 7 Classes Hazard Statements

Respiratory sensitiser category 1 H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitiser category 1 H317 - May cause an allergic skin reaction.

SYMBOLS

None required (manufactured article)

Other Hazards

During use, sparks and particles flying from the equipment during grinding or sanding may cause physical injury and fires. Dusts generated during handling may be explosive if in contact with an ignition source.

Precautionary Statements

P103 - Read label before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves/eye protection/face protection.

P284 - Wear respiratory protection. (see section 8)

P304+P341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

Additional statements:

Wear hearing protection during use.



3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Aluminium Oxide	1344-28-1	0-95%
silicon carbide	409-21-2	0-95%
phenolic resin	proprietary	5-20%
glass mesh	65997-17-3	0-10%
Iron sulfide (FeS2)	12068-85-8	0-20%
fluorides	Not specified	0-15%
iron oxide	1332-37-2	0-5%
limestone	1317-65-3	0-3%

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information

You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Persons using this product should consult a doctor if injured using this product.

Recommended first aid Ready access to running water is recommended.

facilities

Exposure

Unlikely source of exposure. IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. **Swallowed**

Contact a doctor if you feel unwell.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Apply continuous irrigation with water for at least 15 minutes

holding eyelids apart. Immediately call a POISON CENTER or doctor.

Skin contact IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention. Wash contaminated clothing before reuse.

Inhaled IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position

comfortable for breathing. If patient is unconscious, place in the recovery position (on

the side) for transport and contact a doctor.

Advice to Doctor

Treat symptomatically

5. Firefighting Measures

Fire and explosion hazards: There are no specific risks for fire/explosion for this chemical. It is not classed as

flammable. Dusts generated during use may present an explosion hazard.

Carbon dioxide, extinguishing powder, foam, fog sprays, water jets.

Suitable extinguishing

substances:

Unsuitable extinguishing

substances:

Unknown.

Products of combustion: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying

spaces, forming potentially explosive mixtures.

Protective equipment: No special measures are required.

Hazchem code: NA

6. Accidental Release Measures

Containment There is no current legal requirement for containment of this product. In all cases design

storage to prevent discharge to storm water.

Generally, the containers size will limit a large spill from occurring. If a significant spill **Emergency procedures**

occurs: Stop leak if safe or necessary. Isolate area. Collect spill, see below. Transfer to

container for disposal. Dispose of according to guidelines below (Section 13).

This product is not considered flammable or ecotoxic. Small spills do not require any Clean-up method

special clean up method. Larger spills (e.g., greater than 10kg) should be mopped up

and collected.

Disposal Mop up and collect recoverable material into labelled containers for recycling or salvage.

Recycle containers wherever possible. This material may be suitable for approved

landfill. Dispose of only in accord with all regulations.

Precautions No special protective clothing is normally necessary.

Page 2 of 6 January 2024

Product Name: Robtec Cutting Discs



7. Storage & Handling

Storage

Handling

Store in a cool dry place. Store in original container. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10. During the manual handling of products handle with care as corners may be sharp. Minimise dust generation and accummulation. See section 8 with regard to personal protective equipment requirements. Avoid skin and eye contact and inhalation of masonry dust.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace	Ingredient	WES-TWA	WES-STEL
Exposure Stds	Aluminium	1mg/m³ (respirable)	Not established
-	Silicon carbide	10mg/m ³	Not established
	Fluorides	2.5mg/m ³	Not established
	Iron salts, soluble as Fe	1mg/m³	Not established
	Calcium carbonate	10mg/m ³	Not established

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment

Personal Protective Equipment (PPE) should not be used as the primary means of exposure protection, except in the event of an accident or emergency situation or where all other means of protection have proven to inadequate.

Clean PPE after use or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct fitting and use of respirators and where applicable the cleaning of respirators should be undertaken.

Eyes



Protect eyes with goggles, safety glasses or full face mask. Avoid wearing contact lenses. Select eye protection in accordance with AS/NZS 1337.

Skin



Avoid repeated or prolonged skin contact. Wear protective clothing, shoes and impervious gloves (e.g., nitrile, PVC, rubber, neoprene).

Respiratory

To prevent irritation a well fitted dust mask should be used (this is not recommended when exposure is close to the WES). Respirator is not required under normal use. Ensure adequate natural ventilation. If product is being used in confined conditions, the use of a mask or respirator may be preferred.

Product Name: Robtec Cutting Discs

Use hearing protection when in use.

Additional controls

WES Additional Information

Not applicable



9. Physical & Chemical Properties

Appearance brown or black solid

Odour no odour **Odour Threshold** no data pН no data Freezing/melting point no data **Boiling Point** no data Flashpoint no data **Flammability** no data **Upper & lower flammable limits** no data Vapour pressure no data Vapour density no data Specific gravity/density no data Solubility no data Partition coefficient no data **Auto-ignition temperature** no data **Decomposition temperature** no data Viscosity no data **Particle Characteristics** no data

10. Stability & Reactivity

Stability Stable

Conditions to be avoided Keep from extreme heat and open flames.

Incompatible groups None known Substance Specific None known Incompatibility

Hazardous decomposition None known products
Hazardous reactions None known

11. Toxicological Information

Summary

IF SWALLOWED: no known effect.

IF IN EYES: dusts may be irritation.

IF ON SKIN: dusts may cause sensitisation (iron sulphide).

IF INHALED: dusts may be irritating. Dusts may cause allergic reactions such as asthma.

Supporting Data

Acute Oral Using LD₅₀'s for ingredients, the Acute Toxicity Estimate (ATE) (oral) for the mixture is

>2,000 mg/kg.

Dermal Using LD₅₀'s for ingredients, the Acute Toxicity Estimate (ATE) (dermal) for the mixture

is >2,000 mg/kg.

Inhaled Using LD₅₀'s for ingredients, the Acute Toxicity Estimate (ATE) (inhalation) for the

mixture is >5mg/L/4h.

Eye The mixture is not considered to be an eye irritant. **Skin** The mixture is not considered to be a skin irritant.

Chronic Sensitisation Iron disulphide is considered a respiratory and skin sensitiser.

Mutagenicity No ingredient present at concentrations > 0.1% is considered a mutagen.

Carcinogenicity Silicon carbide is probably carcinogenic to humans (group 2A).

Reproductive / No ingredient present at concentrations > 0.1% is considered a reproductive or

Developmental developmental toxicant or have any effects on or via lactation.

Systemic No ingredient present at concentrations > 1% is considered a target organ toxicant.

Aggravation of None known.

existing conditions

12. Ecological Data

Summary

This mixture is not considered ecotoxic. In all cases prevent run-off to drains, sewers and waterways.

Supporting Data

Aquatic Using EC₅₀'s for ingredients, the calculated EC₅₀ for the mixture is > 100 mg/L.

Bioaccumulation No data
Degradability No data

Page 4 of 6 January 2024

Product Name: Robtec Cutting Discs



Soil No evidence of soil toxicity.

Terrestrial vertebrate Not considered ecotoxic towards terrestrial vertebrates (see acute toxicity)

Terrestrial invertebrate No evidence of toxicity towards terrestrial invertebrates.

Biocidal no data

Environmental effect level No EELs are available for this mixture or ingredients

13. Disposal Considerations

Restrictions There are no product-specific restrictions, however, local council and resource consent

conditions may apply, including requirements of trade waste consents.

Disposal method Disposal of this product must comply with the Hazardous Substances (Disposal) Notice

2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore

rendered non-hazardous before discharge to the environment.

Contaminated packagingDisposal of contaminated packaging must comply with the Hazardous Substances

(Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible

reuse or recycle packaging.

14. Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

There are no specific restrictions for this product (not a dangerous good).

UN number:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:NAHazchem code:NA

IMDG

UN number: NA Proper shipping name: Not regulated

Class(es) NA Packing group: NA Precautions: NA EmS NA

IATA

UN number: NA Proper shipping name: Not regulated

Class(es) NA Packing group: NA Precautions: NA ERG Guide NA

15. Regulatory Information

Robtec Cutting discs are manufactured articles. Dust created when using this product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002612, Metal Industry Products (Subsidiary Hazard) Group Standard 2020).

Specific Controls

Key workplace requirements are:

SDS Not required (non hazardous), but best practice to have the SDS available.

Inventory An inventory of all hazardous substances must be prepared and maintained.

Packaging All hazardous substances should be appropriately packaged including substances.

All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been

Product Name: Robtec Cutting Discs

supplied

Labelling Must comply with the Hazardous Substances (Labelling) Notice 2017.

Emergency plan Not required. Certified handler Not required. Tracking Not required. Bunding & secondary containment Not required. Signage Not required. Location compliance certificate Not required. Flammable zone Not required. Fire extinguisher Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.



Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

16. Other Information

Abbreviations

LC₅₀

Approval Code not applicable – non hazardous.

CAS Number Unique Chemical Abstracts Service Registry Number

Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species)

EPA Environmental Protection Authority (New Zealand)

GHS Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised

edition, 2017, published by the United Nations.

HAZCHEM Code Emergency action code of numbers and letters that provide information to emergency

services, especially fire fighters

HSNO Hazardous Substances and New Organisms (Act and Regulations)

IARC International Agency for Research on Cancer

LEL Lower Explosive Limit

LD₅₀ Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population

(usually rats)

NZIoC New Zealand Inventory of Chemicals

MSDS (SDS) Material Safety Data Sheet (or Safety Data Sheet)

STEL Short Term Exposure Limit - The maximum airborne concentration of a chemical or

biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

STOT RESystem Target Organ Toxicity – Repeated Exposure
STOT SE
System Target Organ Toxicity – Single Exposure

TWA Time Weighted Average – generally referred to WES averaged over typical work day

(usually 8 hours)

UELUpper Explosive LimitUN NumberUnited Nations Number

WES Workplace Exposure Standard - The airborne concentration of a biological or chemical

agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring

using procedures that gather air samples in the worker's breathing zone.

References

Data

Unless otherwise stated comes from the EPA HSNO chemical classification information

database (CCID).

Controls EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances)

Regulations 2017, www.legislation.govt.nz

WES The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available

on their web site – www.worksafe.govt.nz.

Other References: EU ECHA, ingredients SDS's, ChemIDplus

Review

Date Reason for review

January 2024 Not applicable – new SDS – draft version

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS 7 classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 21 1040951.

