

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name FURNACE BATCHING REFUSE
Synonym(s) BATCHING REFUSE

1.2 Uses and uses advised against

Use(s) MULCH SOIL ADDITIVE

1.3 Details of the supplier of the safety data sheet

Supplier name SIMCOA OPERATIONS PTY LTD
Address 973 Marriott Rd, Wellesley, WA, Australia, 6233
Telephone 08 9780 6661
Fax Not supplied
Email craigwallis@simcoa.com.au
Website http://www.simcoa.com.au

1.4 Emergency telephone number(s)

Emergency 0408901179

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

GHS Classification(s) Self-Heating Substances and Mixtures: Category 2
 Carcinogenicity: Category 1A
 Specific Target Organ Systemic Toxicity (Repeated Exposure): Category 1

2.2 Label elements

Signal word DANGER

Pictograms



Hazard statement(s)

H252 Self-heating in large quantities; may catch fire.
 H350 May cause cancer.
 H372 Causes damage to organs through prolonged or repeated exposure.

Prevention statement(s)

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P235 + P410 Keep cool. Protect from sunlight.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response statement(s)

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage statement(s)

P405 Store locked up.
 P407 Maintain air gap between stacks/pallets.
 P413 Store bulk masses at temperatures not exceeding exceeding that specified on the MSDS/label.
 P420 Store away from other materials.

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Disposal statement(s)

P501 Dispose of contents/container in accordance with relevant regulations.

2.3 Other Hazards

No information provided.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS number	EC number	Content
CARBON	7440-44-0	231-153-3	78.5%
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	238-878-4	16.2%
IRON COMPOUND(S)	Not Available	Not Available	0.2%
ARSENIC	7440-38-2	231-148-6	<0.01%
CHROMIUM	7440-47-3	231-157-5	<0.01%
COPPER	7440-50-8	231-159-6	<0.01%
LEAD	7439-92-1	231-100-4	<0.01%
NICKEL	7440-02-0	231-111-4	<0.01%
ZINC	7440-66-6	231-175-3	<0.01%
CALCITE	Not Available	Not Available	5.4%
ALUMINIUM COMPOUND(S)	Not Available	Not Available	0.2%
NAPHTHALENE(S)	Not Available	Not Available	<0.02%

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting. Ingestion is considered unlikely due to product form.

First aid facilities Eye wash facilities and safety shower should be available.

4.2 Most important symptoms and effects, both acute and delayed

No information provided.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Dry agent, carbon dioxide, foam or water fog. Prevent contamination of drains and waterways.

5.2 Special hazards arising from the substance or mixture

Spontaneously combustible. May spontaneously ignite in air. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

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5.4 Hazchem code

1Y

- 1 Coarse Water Spray.
- Y Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Contain spill and run-off.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

If spilt, collect and reuse where possible.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry area.

7.3 Specific end use(s)

No information provided.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Substance	Reference	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Arsenic & soluble compounds (as As)	SWA (AUS)	--	0.05	--	--
Chromium Metal	SWA (AUS)	--	0.5	--	--
Copper (fume)	SWA (AUS)	--	0.2	--	--
Copper, dusts & mists (as Cu)	SWA (AUS)	--	1	--	--
Iron salts, soluble (as Fe)	SWA (AUS)	--	1	--	--
Lead, inorganic dusts & fumes (as Pb)	SWA (AUS)	--	0.15	--	--
Naphthalene	SWA (AUS)	10	52	15	79
Nickel, metal	SWA (AUS)	--	1	--	--
Nickel, soluble compounds (as Ni)	SWA (AUS)	--	0.1	--	--
Quartz (respirable dust)	SWA (AUS)	--	0.1	--	--

Biological limits

Ingredient	Reference	Determinant	Sampling time	BEI
ARSENIC	ACGIH BEI	Inorganic arsenic plus methylated metabolites in urine	End of workweek	35 µg As/L

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Biological limits

Ingredient	Reference	Determinant	Sampling time	BEI
CHROMIUM	ACGIH BEI	Total chromium in urine	End of shift at end of workweek	25 µg/L
	ACGIH BEI	Total chromium in urine	Increase during shift	10 µg/L
LEAD	ACGIH BEI	Lead in blood	Not critical	30 µg/100mL

8.2 Exposure controls

Engineering Controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

PPE

- Eye/Face** Wear dust-proof goggles.
- Hand** Wear PVC or rubber gloves.
- Body** When using large quantities or where heavy contamination is likely, wear coveralls.
- Respiratory** Where an inhalation risk exists, wear a Class P1 (Particulate) respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	BLACK SOLID
Odour	SLIGHT ODOUR
Odour Threshold	NOT AVAILABLE
Flammability	SPONTANEOUSLY COMBUSTIBLE
Flash Point	NOT AVAILABLE
Boiling Point	NOT AVAILABLE
Melting Point	NOT AVAILABLE
Evaporation Rate	NOT AVAILABLE
pH	NOT AVAILABLE
Specific Gravity	NOT AVAILABLE
Solubility (water)	NOT AVAILABLE
Vapour Density	NOT AVAILABLE
Vapour Pressure	NOT AVAILABLE
Upper Explosion Limit	NOT AVAILABLE
Lower Explosion Limit	NOT AVAILABLE
Partition Coefficient	NOT AVAILABLE
Autoignition Temperature	NOT AVAILABLE
Decomposition Temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive Properties	NOT AVAILABLE
Oxidising Properties	NOT AVAILABLE

9.2 Other information

No information provided.

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10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information in sections 10.2 to 10.6.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Polymerization is not expected to occur.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites) and acids (e.g. nitric acid).

10.6 Hazardous decomposition products

May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
Skin	Contact may result in irritation, redness, pain and rash.
Eye	Contact may result in irritation, lacrimation, pain and redness.
Mutagenicity	Not classified as a mutagen.
Carcinogenicity	Silica dust, crystalline, in the form of quartz or cristobalite is classified as carcinogenic to humans (IARC Group 1).
Reproductive	Not classified as a reproductive toxin.
STOT - single exposure	Not classified as causing organ damage from single exposure. However, over exposure may result in mild irritation of the nose and throat, with coughing.
STOT - repeated exposure	Repeated exposure to respirable silica may result in pulmonary fibrosis (silicosis). Silicosis is a fibronodular lung disease caused by deposition in the lungs of fine respirable particles of crystalline silica. Principal symptoms of silicosis are coughing and breathlessness.
Aspiration	Not classified as causing aspiration.
Sensitisation	Not classified as causing skin or respiratory sensitisation.

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12. ECOLOGICAL INFORMATION

12.1 Toxicity

Avoid release to the environment. The product should not be allowed to enter drains, water courses or the soil.

12.2 Persistence and degradability

No information provided.

12.3 Bioaccumulative potential

No information provided.

12.4 Mobility in soil

No information provided.

12.5 Results of PBT and vPvB assessment

No information provided.

12.6 Other adverse effects

Do not contaminate ponds, waterways or drains with the product or used containers.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal Reuse where possible. Do not incinerate this product as toxic vapours may be evolved. Dispose of at an approved landfill site.
Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



	Land Transport (ADG)	Sea Transport (IMDG/IMO)	Air Transport (IATA/ICAO)
14.1 UN number	3088	3088	3088
14.2 UN proper shipping name	SELF-HEATING SOLID, ORGANIC, N.O.S.		
14.3 Transport hazard classes			
DG division	4.2	4.2	4.2
Subsidiary risk(s)	None Allocated	-	-
14.4 Packing group	III	III	III
14.5 Environmental hazards		None Allocated	
14.6 Special precautions for user			
Hazchem Code	1Y		
EMS		F-A, S-J	

Other information This product is exempt from classification if transported in packages of not more than 3 cubic metres volume.

15. REGULATORY INFORMATION

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

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Product name	FURNACE BATCHING REFUSE		
Classifications	Carc. - Carcinogen T - Toxic		
Risk phrases	R48/23:	Toxic: danger of serious damage to health by prolonged exposure through inhalation.	
	R49:	May cause cancer by inhalation.	
Safety phrases	S36/37:	Wear suitable protective clothing and gloves.	
	S45:	In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).	

WHS regulatory information

Ingredient name	CAS number	Regulation	Details
ARSENIC	7440-38-2	Restricted Hazardous Chemicals	Arsenic & its compounds. For abrasive blasting >0.1%.
		Schedule 14 - Health Monitoring	Arsenic (inorganic)
CHROMIUM	7440-47-3	Restricted Hazardous Chemicals	Chromium & its compounds. For abrasive blasting >0.5% (except as specified for wet blasting).
		Schedule 14 - Health Monitoring	Chromium (inorganic)
LEAD	7439-92-1	Restricted Hazardous Chemicals	Lead & its compounds. For abrasive blasting >0.1% (or where exposure exceeds lead regulations).
		Schedule 14 - Health Monitoring	Lead (inorganic)
NICKEL	7440-02-0	Restricted Hazardous Chemicals	Nickel & its compounds. For abrasive blasting >0.1%.
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	Restricted Hazardous Chemicals	Free silica (crystalline silicon dioxide). For abrasive blasting >1%.
		Schedule 14 - Health Monitoring	Crystalline silica

Inventory listing(s) **AUSTRALIA: AICS (Australian Inventory of Chemical Substances)**
All components are listed on AICS, or are exempt.

15.2 Chemical safety assessment

No information provided.

16. OTHER INFORMATION

Additional information **RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

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Abbreviations	ACGIH	American Conference of Governmental Industrial Hygienists
	CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
	CNS	Central Nervous System
	EC No.	EC No - European Community Number
	EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
	GHS	Globally Harmonized System
	GTEPG	Group Text Emergency Procedure Guide
	IARC	International Agency for Research on Cancer
	LC50	Lethal Concentration, 50% / Median Lethal Concentration
	LD50	Lethal Dose, 50% / Median Lethal Dose
	mg/m ³	Milligrams per Cubic Metre
	OEL	Occupational Exposure Limit
	pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
	ppm	Parts Per Million
	STEL	Short-Term Exposure Limit
	STOT-RE	Specific target organ toxicity (repeated exposure)
	STOT-SE	Specific target organ toxicity (single exposure)
	SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
	SWA	Safe Work Australia
	TLV	Threshold Limit Value
	TWA	Time Weighted Average

Report Status This ChemAlert report has been independently compiled by RMT's scientific department utilising the original Safety Data Sheet ('SDS') for the product provided to RMT by the manufacturer. The information is based on the latest chemical and toxicological research and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. It is an independent collation by RMT of information obtained from the original SDS for this product. Its content has not been authorised or verified by the manufacturer / distributor of the chemical to which it relates.

This ChemAlert report does not constitute the manufacturer's original SDS and is not intended to be a replacement for same. It is provided to subscribers of ChemAlert as a reference tool only, is not all-inclusive and does not represent any guarantee as to the properties of the product. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

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End of Report