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Version number: 1.0



SAFETY DATA SHEET

Section 1 - Identification

Product identifier Tribunil® Selective Herbicide

Other means of identification

795 SDS No.

Recommended use of the chemical and restrictions on use

Recommended use Herbicide.

Restrictions on use No other uses are advised.

Details of manufacturer or importer

Manufacturer

Company name AgNova Technologies Pty Ltd **Address** Unit 4, 482 Kingsford Smith Drive

Hamilton, Queensland 4007

Australia

Telephone AgNova Technologies Pty 03 9899 8100 (office hours)

Ltd

Website agnova.com.au E-mail info@agnova.com.au

IXOM ERS Emergency phone number 1800 033 111 (24 hours)

> Poisons Information Centre 13 11 26

Section 2 - Hazard(s) identification

Classification of the hazardous chemical

Physical hazards Not classified. **Health hazards** Not classified.

Environmental hazards Hazardous to the aquatic environment, acute Category 1

Hazardous to the aquatic environment, Category 1

long-term hazard

Label elements, including precautionary statements

Hazard symbol(s)



Environment

Signal word Warning

Hazard statement(s) Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention Avoid release to the environment.

Response Collect spillage. Storage Not assigned.

Dispose of contents/container in accordance with local/regional/national/international regulations. **Disposal**

Supplemental information This is a pesticide product registered in Australia under the Australian Pesticides and Veterinary Medicines Authority (APVMA) and is subject to certain labeling requirements. These requirements

may differ from the classification criteria and hazard information required for GHS compliant

safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

Other hazards which do not

result in classification

None known.

Section 3 - Composition and information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients	
Methabenzthiazuron	18691-97-9	70%	
Kaolin	1332-58-7	10 - 30%	
Amorphous Silica (silica Gel, Precipitated Silica)	112926-00-8	< 10%	
Other components below reportable levels		< 10%	

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Section 4 - First aid measures

Description of necessary first aid measures

Inhalation Move to fresh air. Call a poison centre or doctor/physician.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Direct contact with eyes may cause temporary irritation.

Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician or poison Eye contact

control centre immediately.

Rinse mouth. Call a poison centre or doctor/physician. Ingestion

Personal protection for first-aid

responders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

Symptoms caused by exposure

Medical attention and special

Treat symptomatically.

treatment

Section 5 - Firefighting measures

Extinguishing media

Suitable extinguishing

equipment

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

equipment

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Dust may form explosive mixture in air. During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

27 Hazchem code

General fire hazards

No unusual fire or explosion hazards noted.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep upwind. Keep out of low areas. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders

Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Carefully mop or sweep up spill and place in container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS.

Section 7 - Handling and storage

Precautions for safe handling

Provide adequate ventilation. Wear appropriate personal protective equipment. Do not allow water soluble bags to be splashed with water or handled with wet gloves. Observe good industrial hygiene practices. Avoid prolonged exposure. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Do not store near food, feed, fertilisers, seeds, insecticides or fungicides. Store away from incompatible materials (see Section 10 of the SDS).

Section 8 - Exposure controls and personal protection

Control parameters

Follow standard monitoring procedures.

Occupational exposure limits

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminant	s, Appendix A)

Components	Туре	Value	Form
Amorphous Silica (silica Gel, Precipitated Silica) (CAS 112926-00-8)	TWA	10 mg/m3	Inhalable dust.
Kaolin (CAS 1332-58-7)	TWA	10 mg/m3	Inhalable dust.
US. ACGIH Threshold Limit Value	es (TLV)		
Components	Type	Value	Form
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
,		9	Respirable fraction.
Kaolin (CAS 1332-58-7) UK. OELs. Workplace Exposure Components		9	Respirable fraction. Form

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds

in the Work Area (DFG), as updated

ComponentsTypeValueFormKaolin (CAS 1332-58-7)TWA4 mg/m3Inhalable dust.

Biological limit values No biological exposure limits noted for the ingredient(s).

Control banding Not available.

Engineering controls Good general ventilation should be used. Ventilation rates should be matched to conditions. If

applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

Section 9 - Physical and chemical properties

Physical state Solid.

Form Wettable powder.

Colour Beige.

Odour Slight odour. Characteristic.

Odour threshold Not available.

pH 8 - 10.5 (1% in water)

Melting point/freezing pointNot available.Boiling point and boiling rangeNot available.Flash pointNot available.Evaporation rateNot available.Flammability (solid, gas)Not available.

Upper/lower explosive limits

Explosion limit - lower (%) Not available.

Explosion limit - upper (%) Not available.

Vapour pressure 5.90E-06 Pa at 20 °C (active ingredient)

Vapour densityNot available.Relative densityNot available.

Solubility

Dispersible. Solubility (water) Not available. Partition coefficient:

n-octanol/water

Auto-ignition temperature Not available. Not available. **Decomposition temperature** Not available. **Viscosity**

Data relevant with regard to physical hazard classes

Particle characteristics

No relevant additional information available.

Other physical and chemical parameters

0.29 / 0.34 g/mL (loose/packed) **Bulk density**

Under dusting conditions, this material may form explosive mixtures in air. **Explosive properties**

Oxidising properties Not oxidising.

Section 10 - Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Moisture. Contact with incompatible materials. Incompatible materials Strong oxidising agents. Strong acids and bases. No hazardous decomposition products are known. Hazardous decomposition

Not available.

products

Section 11 - Toxicological information

Information on possible routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion May cause discomfort if swallowed.

Early onset symptoms related

to exposure

Direct contact with eyes may cause temporary irritation.

Delayed health effects from

exposure

Not available.

Based on available data, the classification criteria are not met. **Acute toxicity**

Product Test Results Species

Tribunil® Selective Herbicide

Acute Dermal

> 5000 mg/kg (test results of a similar LD50 Rat

product)

Inhalation

Dust

LC50 Rat 5.12 mg/l, 4 Hours

Skin corrosion/irritation Non-irritating (rabbit). Classification based on similar formulation.

Serious eye damage/irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitiser.

Skin sensitisation This product is not expected to cause skin sensitisation.

Germ cell mutagenicity Not expected to be mutagenic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

ACGIH Carcinogens

Kaolin (CAS 1332-58-7) A4 Not classifiable as a human carcinogen.

Material name: Tribunil® Selective Herbicide SDS AUSTRALIA 2321

IARC Monographs. Overall Evaluation of Carcinogenicity

Amorphous Silica (silica Gel. Precipitated Silica) 3 Not classifiable as to carcinogenicity to humans.

(CAS 112926-00-8)

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Reproductive toxicity

Not classified.

Aspiration hazard

Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

Section 12 - Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Components **Species Test Results**

Methabenzthiazuron (CAS 18691-97-9)

Aquatic

Acute

IC50 Green algae (Scenedesmus 0.033 mg/l, 72 hours Algae

quadricauda)

Scenedesmus subspicatus

Rainbow trout (Oncorhynchus mykiss)

0.119 mg/l, 96 hours

LC50 Crustacea Daphnia magna 30.6 mg/l, 48 hours

Fish LC50 15.9 mg/l, 96 hours

Persistence and degradability

Methabenzthiazuron is adsorbed strongly on soils and degrades slowly. Duration of residual activity is about 3 months. Methabenzthiazuron is unstable in strong acids and alkalis but has a

DT50 greater than 1 year at pH 4-9 at 22 °C. It is stable to direct photolysis.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Methabenzthiazuron 2.64

Mobility in soil Other adverse effects

No data available for this product. No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component. Not

toxic to bees.

Section 13 - Disposal considerations

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Dispose of in accordance with all applicable regulations. Empty containers or liners may retain Residual waste

some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Section 14 - Transport information

ADG

UN number

UN proper shipping name Transport hazard class(es) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Methabenzthiazuron)

9 Class Subsidiary risk Ш Packing group **Environmental hazards** Yes Hazchem code 27

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

RID

UN number 3077 UN proper shipping name Transport hazard class(es)

Environmental hazards

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Methabenzthiazuron)

Class 9 Subsidiary risk 9 Label(s) Ш Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number

Environmentally hazardous substance, solid, n.o.s. (Methabenzthiazuron) **UN** proper shipping name Transport hazard class(es)

9 Class Subsidiary risk Packing group Ш **Environmental hazards** Yes **ERG Code** 91

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Yes

Cargo aircraft only

Allowed with restrictions.

IMDG

UN number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Methabenzthiazuron), **UN** proper shipping name

MARINE POLLUTANT

Not applicable.

Allowed with restrictions.

Transport hazard class(es)

Class 9 Subsidiary risk Packing group Ш **Environmental hazards**

Marine pollutant Yes F-A. S-F **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

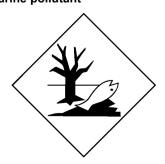
Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

ADG; IATA; IMDG; RID



Marine pollutant



General information IMDG Regulated Marine Pollutant.

Road and Rail Transport: Not dangerous goods under the ADG7 when being transported in IBCs

or other receptacles <500 L (kg) (Special Provision AU01).

Section 15 - Regulatory information

Safety, health and environmental regulations

National regulations

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the

preparation of Safety Data Sheets for Hazardous Chemicals.

Poison Schedule: S5 Signal Word CAUTION

Australia Medicines & Poisons Appendix B

Kaolin (CAS 1332-58-7)

High Volume Industrial Chemicals (HVIC)

Amorphous Silica (silica Gel, Precipitated Silica) 1000 - 9999 TONNES See the regulation for additional

(CAS 112926-00-8) information.

Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10, as amended)

Not listed

National Pollutant Inventory (NPI) substance reporting list

Amorphous Silica (silica Gel, Precipitated Silica) 2000 tonnes/yr Threshold Category: 2B

(CAS 112926-00-8)

Kaolin (CAS 1332-58-7)

400 tonnes/yr Threshold Category: 2A 2000 tonnes/yr Threshold Category: 2B 400 tonnes/yr Threshold Category: 2A

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2

NOHSC:1005 (1994) as amended)

Not listed.

Restricted Carcinogenic Substances

Not regulated.

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region Inventory name On inventory (yes/no)*

Australia Australian Inventory of Industrial Chemicals (AICIS) No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16 - Any other relevant information

Issue date 13-June-2023
Revision date 13-June-2023

Material name: Tribunil® Selective Herbicide SDS AUSTRALIA

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