



SAFETY DATA SHEET (SDS)

(In accordance with SANS ISO 110141)

RRHIZ-UP

Issue Date	09/2021
Revision Date	2023
SDS Nr.	MB/RU001

Section – 1 PRODUCT AND COMPANY IDENTIFICATION

Product name : RRHIZ-UP
Product Code : M 319
Description : A granular Arbuscular Mycorrhizal fungal product that forms a symbiotic relationship with the roots of most flowering plants, herbs, vegetables, and agricultural crops
Supplier : Metson Biologicals
PO Box 1005, Cresta 2118
Gauteng, South Africa
Emergency Telephone Number : 0861 Metson (638 766)

Section 2 – HAZARDS IDENTIFICATION

Hazard Class	Hazard Category	Hazard Statement	Hazard Code	Signal Word
Specific target organ toxicity, single exposure; Respiratory tract irritation	3	May cause respiratory irritation	H335	Warning

Section 3 – COMPOSITION / INFORMATION ON COMPONENTS

Substance / preparation : Granular zeolite containing Arbuscular Mycorrhizal spores
Chemical nature : Granular powder

Hazardous components: -

Chemical name	CAS no	Concentration
Zeolite	-	80%
Arbuscular mycorrhizal propagules	-	20%

Section 4 - FIRST AID MEASURES

Eye Contact : None
Skin Contact : None
Ingestion : None
Note to Physician : None



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Section 5 - FIRE FIGHTING MEASURES

The product is not flammable or combustible.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions : Avoid breathing dust

Environmental precautions : None.

Methods for cleaning up : None.

Section 7 - HANDLING AND STORAGE

Safe handling advice : Avoid breathing dust.

Storage conditions : Store out of direct sunlight. Do not expose product to extreme temperatures.
Preferably store in a cool dry environment away from other chemicals.

Section 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure limits : None

Personal protection equipment : Not applicable

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Granular powder
Colour	: Light grey to white
Odour	: Dusty odour
Melting temperature	: Not measured
Initial boiling point	: Not measured
Ignition temperature	: Not measured
Lower explosion limit	: Not measured
Upper explosion limit	: Not measured
Water solubility	: Non-soluble, product is highly absorptive

Section 10 – STABILITY AND REACTIVITY

Thermal decomposition : Not measured.

Hazardous decomposition products : None with proper storage and handling.

Hazardous reactions : None with proper storage and handling.



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Section 11 - TOXICOLOGICAL INFORMATION

LD50 Acute oral

Eye irritant

Arsenic pentoxide	: Refer to risk statement in Section 15
Chromium trioxide	: Refer to risk statement in Section 15
Cupric oxide	: Refer to risk statement in Section 15

Skin irritant

Arsenic pentoxide	: Refer to risk statement in Section 15
Chromium trioxide	: Refer to risk statement in Section 15
Cupric oxide	: Refer to risk statement in Section 15

Carcinogen

Arsenic pentoxide	: Refer to risk statement in Section 15
Chromium trioxide	: Refer to risk statement in Section 15
Cupric oxide	: Refer to risk statement in Section 15

Acute exposure symptoms

Arsenic pentoxide	: Refer to risk statement in Section 15
Chromium trioxide	: Refer to risk statement in Section 15
Cupric oxide	: Refer to risk statement in Section 15

Section 12 - ECOLOGICAL INFORMATION

Persistence / degradability

Arsenic pentoxide	: Refer to risk statement in Section 15
Chromium trioxide	: Refer to risk statement in Section 15
Cupric oxide	: Refer to risk statement in Section 15

Ecotoxicity

Arsenic pentoxide	: Refer to risk statement in Section 15
Chromium trioxide	: Refer to risk statement in Section 15
Cupric oxide	: Refer to risk statement in Section 15

Section 13 – DISPOSAL CONSIDERATIONS

Product : Dispose according to the local regulations.

Containers : Dispose according to the local regulations.

Contaminated packaging : Dispose according to the local regulations.

Section 14 – TRANSPORT INFORMATION

Non-dangerous



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Section 15 – REGULATORY INFORMATION

National legislation (South Africa)

Hazardous substances : Not Hazardous
Transport : National Road Traffic Act, Act 93 of 1996 – Chapter VII of the regulations.
Waste disposal : National Water Act, Act 36 of 1998

Other regulations

Hazard Symbols :
Risk phrases : H335 - May cause respiratory irritation
Safety phrases : None

Section 16 – OTHER INFORMATION

16.1 This Safety Data Sheet has been prepared using data supplied by the manufacturers of the ingredients and summarises our best knowledge, at the date of issue, and of the health and safety information of the product and how to safely handle and use the product in the workplace. Since Metson Manufacturing cannot anticipate or control the conditions under which the product may be used, each user must prior to usage, review this Safety Data Sheet in the context of how their user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that and appropriate risk assessment can be made, the user should contact Metson Manufacturing.

16.2 **Original** : September 2021
Latest Revision : June 2023

021
09/2021
Future Revision 2024

End of SDS

Key:

FKM : Fluoroelastomer
PVC : Polyvinyl chloride
NIOSH : National Institute for Occupational Health and Safety

Label elements

GHS (Pictogram)	GHS (Classification)	Protective Clothing
	H335 – May cause respiratory irritation	