



SAFETY DATA SHEET (SDS)

(In accordance with GHS ST/SG/AC.10/30/Rev.7 and SANS ISO 110141)

CARBO MAN

Issue Date	07/2019
Revision Date	2024
SDS Nr.	BNBV2/CM040

Section – 1 PRODUCT AND COMPANY IDENTIFICATION

Product name : Carbo Man
Product Code : B 6746
Recommended use : Carbohydrate Chelated Foliar spray with added Manganese and Boron
Supplier : Metson Manufacturing CC
P.O. 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
Flammable liquid and vapour	3	Flammable liquid	H226	Warning
Acute toxicity, oral	4	Harmful if swallowed	H302	Warning
Skin corrosion/irritation	2	Causes skin irritation	H315	Warning
Carcinogenicity	1A, 1B	May cause cancer	H350	Danger
Reproductive toxicity	1A, 1B	May damage fertility; may damage the unborn child	H360FD	Danger

Section 2 – COMPOSITION / INFORMATION ON COMPONENTS

Substance / preparation : Preparation
Chemical nature : A solution in water
Hazardous components: -

Chemical Name	CAS No.	Concentration
Manganese	7439-96-5	8-13%
Boric Acid	10043-35-3	0-1%
Non disclosed ingredients		86-92%

Ingredients not identified are confidential or non-hazardous. Values on SDS are not product specifications.



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Section 4 - FIRST AID MEASURES

- Eye Contact** : Wash with copious amount of water for about 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat rinse. Seek medical advice immediately.
- Skin Contact** : Remove all contaminated clothing while flushing the contaminated skin immediately with running water for a minimum of 15 minutes. If irritation persists, repeat rinse. Seek medical advice if required.
- Ingestion** : Seek immediate medical attention. Give ½ to one full glass of water to rinse the mouth with. Do not induce vomiting, unless under direction of a physician or a poison control centre expert. If spontaneous vomiting occurs, have the victim lean forward with the head down to avoid breathing in of vomit, rinse mouth and administer water. Transport the victim immediately to an emergency facility.
- Inhalation** : Move away from the vapors and into an area with adequate ventilation.
- Note to Physician** : None

Section 5 - FIRE FIGHTING MEASURES

- Suitable extinguishing media** : For small fires, use foam, carbon dioxide or dry powder extinguishant. For large fires use foam or water-fog; avoid using water jet. Contain run-off with barriers, e.g. earth
- Special protective equipment** : Wear full protective clothing and NIOSH-approved self-contained breathing apparatus. Fire might produce irritating or poisonous vapours, mists or other combustion products.
- Specific hazards** : Flammable. Keep fire exposed containers cool by spraying with water. Container could explode when heated.

Section 6 - ACCIDENTAL RELEASE MEASURES

- Personal Precautions** : Avoid contact with eyes. Ventilate area of spill or leak.
- Environmental precautions** : Avoid run-off of material into water courses.
- Methods for cleaning up** : Small quantities – Collect spill and containerize.
Wash spill area with water.
Large quantities – Dispose waste according to the local regulations.

Section 7 - HANDLING AND STORAGE

- Safe handling advice** : Prevent skin or eye contact. Avoid getting the product on you or in you. Wash hands after handling. Do not eat or drink while handling the product.
- Storage conditions** : Do not store with food, feed or other materials for human or animal consumption. Keep container tightly closed. Store below 37°C.



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Section 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure limits	: None
Personal protection equipment	
Eye protection	: Eye contact with the material should be avoided. Safety glasses, goggles or face shields required. Maintain eye wash fountain and quick drench facilities in work areas.
Skin and body protection	: Gloves and protective clothing made from Viton or PVC should be used. Verify impermeability under normal usage conditions.
Inhalation	: Respirator Mask or NIOSH approved air purifying mask – required under normal conditions
Protective measures	: Required under normal conditions. If eye or skin contact can occur washing facility for eyes and skin must be available nearby.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid
Colour	: Dark Brown liquid
Odour	: Fruity.
Initial boiling point	: 212°F (100°C)
Flash point	: N/A
pH	: 5.5
Specific gravity	: 1.30 (20°C)
Water solubility	: Completely soluble

Section 10 – STABILITY AND REACTIVITY

Conditions to avoid	: None
Materials to avoid	: Avoid contact with Lime Sulphur and Bordeaux mixture.
Hazardous decomposition products	: Not known.
Hazardous polymerization	: Will not occur.



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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)

- 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** : None

Risk phrases

- : H226 – Flammable liquid
: H302 – Harmful if swallowed
: H315 – Causes skin irritation
: H350 – May cause cancer
: H360FD – May damage fertility; may damage the unborn child

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 summarizes 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** : July 2019
Latest Revision : July 2024

019
07/2019
Future Revision 2025

End of SDS

Key:

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



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Label elements

GHS (Pictogram)	GHS (Classification)	Protective Clothing
	<p>H226 – Flammable liquid H302 – Harmful if swallowed H315 – Causes skin irritation H350 – May cause cancer H360FD – May damage fertility; may damage the unborn child</p>	