



MSDS – Material Safety Data Sheet

LAST REVISED: August 19, 2013
MSDS NO.: TC 07

CARBOL™ MULTI-TRACE

1. IDENTIFICATION OF THE SUBSTANCE

Product Identification: Dark Liquid
Use: Used as foliar feed.
UN No: Not regulated

Supplier: HydroGro LLC
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Scottsdale, AZ 85251
(480) 248-9336

2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition:	Zinc	(Zn)	43 g/l
	Iron	(Fe)	17 g/l
	Copper	(Cu)	12 g/l
	Manganese	(Mn)	21 g/l
	Boron	(B)	0,4 g/l
	Molybdenum	(Mo)	0,10 g/l

Aminogluconate chelated



3. HAZARDS IDENTIFICATION

Emergency Overview

- Causes eye burns and mild irritation
- Mildly harmful if swallowed

Potential Health Effects

Inhalation:

Not harmful if inhaled.

Ingestion:

Mildly harmful if swallowed.

Skin Contact:

Causes mild skin irritation. Not significantly absorbed through the intact skin.

Eye Contact:

Causes mild irritation to eyes.

4. FIRST AID MEASURES

Inhalation:

Remove to fresh air. If not breathing gives artificial respiration. If breathing is difficult, give oxygen. Do not give mouth-to-mouth resuscitation if victim ingested or inhaled the substance. Keep person at rest and warm. Treat symptomatically and supportively as and when required. Obtain medical advice if necessary.

Ingestion:

Have victim rinse mouth thoroughly with water. Give water to dilute the material if victim is alert and not convulsing. Do not induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water. Never give anything by mouth to an unconscious person. Qualified medical personnel should perform administration of oxygen. Seek medical advice if necessary.

Skin Contact:

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use.

Eye Contact:

Immediately flush eyes with lukewarm water or saline solution for at least 15 minutes, lifting lower and upper eyelids occasionally. Check for and remove contact lenses after 5 minutes. Get medical attention if necessary.

Emergency number:

911 or insert your local poison control or applicable emergency contact telephone number

5. FIRE FIGHTING MEASURES

Fire:

Not considered to be a fire hazard. Some could burn, but none ignite readily. Containers could explode when heated.

Fire Extinguishing Media:

Extinguish small fires with carbon dioxide, dry powder or alcohol-resistant foam. Water spray or fog can be used for larger fires or cooling of unaffected stock.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode. Fire may produce irritating or poisonous vapours, mists or other products of combustion. Keep upwind of fumes produced by fire.

6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Small Spills:

Absorb with sand or other non-combustible absorbent material and put in a suitable container for reclamation or disposal. Flush area with water, but prevent entry into drains or watercourses.

Large Spills:

Dike far ahead of liquid spills for later disposal. Absorb spilled liquid with suitable absorbent materials. Following product recovery, flush area with water. Prevent entry into drains or watercourses. Place all spill residues in an appropriate container and dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Handling:

Keep out of reach of children, uninformed persons and animals. Observe all warnings and precautions listed for the product.

Storage:

Keep in tightly closed container in a shaded, well-ventilated area, away from heat, sparks and other sources of ignition. Protect against physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation system:

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Skin Protection:

Wear suitable personal protective equipment including approved respiratory protection.

Eye Protection:

Use chemical safety goggles and/or full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark Liquid
Odour:	Pungent Odour
Solubility:	Soluble in water
Density:	1.30
pH:	6.0
Boiling Point:	> 100 °C

10. STABILITY AND REACTIVITY

Stability:	Stable under ordinary conditions of use and storage.
Hazardous Polymerisation:	Will not occur
Conditions to avoid:	No information found
Incompatibilities:	This product is compatible with the majority of agricultural remedies. It is however advisable to do a miscibility test prior to mixing with other chemicals. Do not mix concentrate directly with other herbicides or pesticides concentrates, always dilute first. Do not mix with oxidizing materials or any phosphate containing fertilizers.
Thermal Decomposition:	Carbon dioxide, carbon monoxide and water may form when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

No information found

12. ECOLOGICAL INFORMATION

Environmental Fate:	No information found
Environmental Toxicity:	No information found

13. DISPOSAL CONSIDERATIONS

Contaminated absorbents, surplus product (in diluted form), etc., should be buried in approved landfill. Comply with any local legislation applying to waste disposal. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved waste facility. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

UN No.: Not regulated

15. REGULATORY INFORMATION

EC Classification: No information found

National (South African) Legislation:

National Road Traffic Act, 1996 (Act 93 of 1996).
Fire Brigade Service Act, 1987 (Act 99 of 1987).
Occupational Health and Safety Act, 1993 (Act 85 of 1993).

16. OTHER INFORMATION

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

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