

Safety Data Sheet

YaraVita Mantrac

1. Product and company identification

Product name : YaraVita Mantrac

Product type : liquid Code : PYP75M

<u>Uses</u>

Area of application : Professional applications

Material uses : Fertilizers.

Supplier

Supplier's details Yara Canada Inc. - Downstream

TLP

Address

Street : 1130 Sherbrooke Street West

Number: Suite 1050Postal code: H3A 2M8City: MontrealCountry: Canada

Telephone number : +1 514 849 9222 Fax no. : Not available. e-mail address of person : Not available.

responsible for this SDS

Emergency telephone number :

(with hours of operation)

24 Hour Emergency Service, Canutec 613-996-6666

National advisory body/Poison Center

Name : Poisons and Drug Information Service

Telephone number : +1 403 944 1414, (800) 332 1414 (Alberta only)

Validation date : 06/26/2013 **Print date** : 12/11/2013

2. Hazards identification

Emergency overview

Physical state : liquid Color : Pink

Hazard statements : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE

HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS

FOR USE ARE FOLLOWED.

Version: 1.0

Potential acute health effects

Inhalation : Exposure to decomposition products may cause a health hazard. Serious

effects may be delayed following exposure.

Ingestion: No known significant effects or critical hazards.Skin: No known significant effects or critical hazards.Eyes: No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects:No known significant effects or critical hazards.Carcinogenicity:No known significant effects or critical hazards.Mutagenicity:No known significant effects or critical hazards.Teratogenicity:No known significant effects or critical hazards.Developmental effects:No known significant effects or critical hazards.Fertility effects:No known significant effects or critical hazards.

Target organs : Not available.

Medical conditions : None known.

aggravated by over-exposure

See toxicological information (section 11)

3. Composition/information on ingredients

Name	CAS number	<u>%</u>
Carbonic acid, manganese(2+) salt (1:1)	598-62-9	50 - 65
1,2,3-Propanetriol	56-81-5	2 - 3
2-Propenoic acid, homopolymer, sodium salt	9003-04-7	2 - 3

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Eye contact : Rinse with plenty of running water. Check for and remove any contact

lenses. Get medical attention if irritation occurs.

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

Inhalation : Avoid inhalation of vapor, spray or mist. If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. If material has been swallowed and the

exposed person is conscious, give small quantities of water to drink. Get

medical attention if you feel unwell.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable

training.

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately

if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48

hours.

5. Fire-fighting measures

Flammability of the product : In a fire or if heated, a pressure increase will occur and the container may

burst.

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Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None identified.

Special exposure hazards: Promptly isolate the scene by removing all persons from the vicinity of

the incident if there is a fire. No action shall be taken involving any

personal risk or without suitable training.

Hazardous thermal decomposition products

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

Avoid breathing dusts, vapors or fumes from burning materials.

In case of inhalation of decomposition products in a fire, symptoms may

be delayed. ammonia

Special protective equipment

for fire-fighters

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in

positive pressure mode.

Special remarks on fire

hazards

Non-flammable.

Special remarks on explosion

hazards

None.

6. Accidental release measures

Personal precautions: No action shall be taken involving any personal risk or without suitable

training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material.

Put on appropriate personal protective equipment (see Section 8).

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil,

waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or

air).

Methods for cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with

water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry

into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact

information and section 13 for waste disposal.

7. Handling and storage

Handling : Put on appropriate personal protective equipment (see Section 8). Eating,

drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and

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Storage

protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Occupational exposure limits

Ingredient	Exposure limits
Carbonic acid, manganese(2+) salt	CA Alberta Provincial (2009-07-01) 8-hour Occupational exposure limit
(1:1)	0,2 mg/m3 (Calculated as Mn)
	CA Quebec Provincial (2000-01-12) Time Weighted Average (TWA) 5
	mg/m3 (Calculated as Mn) Form: Total dust
	CA Ontario Provincial (1995-05-23) Notes: See Notice of Intended
	Changes. Substances for which the TLV is higher than the OSHA
	Permissible Exposure Limit (PEL) and/or the NIOSH Recommended
	Exposure Limit (REL). See CFR 58(124):36338-33351, June 30, 1993, for revised OSHA PEL.
	time-weighted average exposure value 0,2 mg/m3 (Calculated as Mn)
	CA British Columbia Provincial (2004-08-01) Notes: Adverse
	reproductive effect.
	8-hour time weighted average 0,2 mg/m3 (Calculated as Mn)
1,2,3-Propanetriol	CA Alberta Provincial (2004-04-30) Notes: Occupational exposure limit is
	based on irritation effects and its adjustment to compensate for unusual
	work schedules is not required.
	8-hour Occupational exposure limit 10 mg/m3 Form: Mist
	CA British Columbia Provincial (2004-08-01) 8-hour time weighted
	average 10 mg/m3 Form: Mist
	CA Ontario Provincial (1994-09-01) Notes: Inhalable fraction
	time-weighted average exposure value 10 mg/m3 Form: Inhalable fraction
	CA Quebec Provincial (2000-01-12) Time Weighted Average (TWA) 10 mg/m3 Form: Mist
	CA British Columbia Provincial (2010-09-01) 8-hour time weighted
	average 3 mg/m3 Form: Respirable mist

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of
Engineering measures	:	hazardous substances will also be required. No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep

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worker exposure below any recommended or statutory limits.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing. A washing facility or water for eye and skin cleaning purposes should be present.

Personal protection

Respiratory: Use a properly fitted, air-purifying or air-fed respirator complying with

an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the

selected respirator.

Hands: Chemical-resistant, impervious gloves complying with an approved

standard should be worn at all times when handling chemical products if

a risk assessment indicates this is necessary.

Eyes : Safety eyewear complying with an approved standard should be used

when a risk assessment indicates this is necessary to avoid exposure to

liquid splashes, mists or dusts.

Skin : Personal protective equipment for the body should be selected based on

the task being performed and the risks involved and should be approved

by a specialist before handling this product.

Environmental exposure

controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to

reduce emissions to acceptable levels.

9. Physical and chemical properties

Physical state : liquid

Flash point : Not determined.

Burning time : Not determined.

Burning rate : Not determined.

Auto-ignition temperature : Not determined.

Flammable limits : Lower: Not determined.

Upper: Not determined.

Explosive properties : None. **Oxidizing properties** : None. **Color** : Pink

Odor : Not determined.

pH : 9

Boiling/condensation point: Not determined.Sublimation temperature: Not determined.Melting/freezing point: -5 °C (23 °F)

Relative density : 1,827

Vapor pressure: Not determined.Odor threshold: Not determined.Evaporation rate: Not determined.

Viscosity : Dynamic: 1.500 - 2.500 mPa.s

Kinematic: Not determined.

Solubility : Not determined.

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10. Stability and reactivity

Chemical stability : The product is stable.

Conditions to avoid : Avoid contamination by any source including metals, dust and organic

materials.

Incompatible materials : Urea reacts with calcium hypochlorite or sodium hypochlorite to form

the explosive nitrogen trichloride.

Hazardous decomposition

products

reactions

Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

Possibility of hazardous: Under normal conditions of storage and use, hazardous reactions will not

occur.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product /	Result	Species	Dose	Exposure	References
ingredient					
name					
Carbonic acid, ma	anganese(2+) salt (1	:1)			
	LD50 Oral	Rat	> 2.000 mg/kg OECD 420	-	IUCLID5
	LC50 Inhalation	Rat	> 5,34 mg/l	4 h	
1,2,3-Propanetrio	1				
	LD50 Oral	Rat	12.600 mg/kg	-	ENTOX* - ,449,2005
2-Propenoic acid, homopolymer, sodium salt					
	LD50 Oral	Rat	> 40.000 mg/kg	-	PSTGAW 20,16,1953

Conclusion/Summary: No known significant effects or critical hazards.

Chronic toxicity

Conclusion/Summary: No known significant effects or critical hazards.

Irritation/Corrosion

Product / ingredient name	Result	Species	Score	Exposure	Observation	References
2-Propenoic acid, homopolymer, sodium salt	Eyes - Moderate irritant	Rabbit			-	

Conclusion/Summary

Skin : No known significant effects or critical hazards.

Eyes : May cause eye irritation.

Respiratory: No known significant effects or critical hazards.

Sensitization

Conclusion/Summary

Skin
Respiratory
No known significant effects or critical hazards.
No known significant effects or critical hazards.

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Carcinogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Classification

Product / ingredient	ACGIH	IARC	NIOSH	NTP	OSHA
name\					
Carbonic acid,					
manganese(2+) salt					
(1:1)					

Mutagenicity

Conclusion/Summary: No known significant effects or critical hazards.

Teratogenicity

Conclusion/Summary: No known significant effects or critical hazards.

Reproductive toxicity

Conclusion/Summary: No known significant effects or critical hazards.

IDLH : No data available.

12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product / ingredient	Result	Species	Exposure	References	
name					
Carbonic acid, mangan	lese(2+) salt (1:1)				
	Acute EC50 > 4 mg/l Fresh water OECD 202	Aquatic invertebrates Daphnia	48 h	IUCLID5	
1,2,3-Propanetriol	1	•	-		
	Acute LC50 54.000 mg/l Fresh water	Fish - Oncorhynchus mykiss	4 d	Resour.Publ.No.160, U.S.Dep.Interior, Fish Wildl.Serv., Washington, DC :505 p. (USGS Data File)	
2-Propenoic acid, home	2-Propenoic acid, homopolymer, sodium salt				
	Acute LC50 > 200 mg/l Fresh water	Fish - Fish.	96 h		

Conclusion/Summary : No known significant effects or critical hazards.

Persistence/degradability

Conclusion/Summary: No known significant effects or critical hazards.

Partition coefficient: n-

octanol/water

Not available.

Mobility : Not available.

Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

Product

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Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14.Transport information

Regulation: UN Class	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	
14.3 Transport hazard class(es)	
14.4 Packing group	
14.5 Environmental hazards	No.
Additional information	: UN Class
Environmental hazards	: No.

Regulation: IMDG	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	
14.3 Transport hazard class(es)	
14.4 Packing group	
14.5 Environmental hazards	No.
14.6 Additional information	: IMDG
Marine pollutant	: No.
Marine pollutant	: No.

Regulation: IATA	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	
14.3 Transport hazard class(es)	
14.4 Packing group	
14.5 Environmental hazards	No.
14.6 Additional information	: IATA
Marine pollutant	: No.

Regulation: DOT Classification	
14.1 UN number	Not regulated.

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14.2 UN proper shipping name	
14.3 Transport hazard class(es)	
14.4 Packing group	
14.5 Environmental hazards	No.
14.6 Additional information	: DOT Classification
Environmental hazards	: No.

Not regulated.
No.
: TDG Class
: No.

Special precautions for user: Transport within user's premises: always transport in closed containers

that are upright and secure. Ensure that persons transporting the product

know what to do in the event of an accident or spillage.'

IMSBC : Not applicable.

Transport in bulk according

to Annex II of MARPOL 73/78 and the IBC Code Not available.

15.Regulatory information

Canada

WHMIS (Canada) : Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists

Canadian NPRI : The following components are listed:

Carbonic acid, manganese(2+) salt (1:1)

CEPA Toxic substances : None of the components are listed.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Remark : To our knowledge no other country or state specific regulations are

applicable.

International lists

Philippines inventory (PICCS): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Korea inventory: Not determined. **Japan inventory:** Not determined.

China inventory (IECSC): Not determined.

Australia inventory (AICS): All components are listed or exempted.

Canada inventory: Not determined.

Malaysia Inventory (EHS Register): Not determined.

Taiwan inventory (CSNN): Not determined.

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United States inventory (TSCA 8b): Not determined.

EC INVENTORY (EINECS/ELINCS): All components are listed or exempted.

16.Other information

Label requirements : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE

HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS

FOR USE ARE FOLLOWED.

Key to abbreviations ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

bw = Body weight

CEPA = Canadian Environmental Protection Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IDLH = Immediately Dangerous to Life or Health

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MÄRPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NPRI = National Pollutant Release Inventory

UN = United Nations

References : EU REACH IUCLID5 CSR.

National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of

Toxic Effects of Chemical Substances.

IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada.

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Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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