

MATERIAL SAFETY DATA SHEET

(Issued 9th February 2010)



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **TW-20** TM

Other names: polysorbate 20; Polyoxyethylene (20) sorbitan monolaurate

Recommended use: Wetting agent

Supplier name: Modern Plant Nutrition Pty. Ltd. (ACN 138 851 920)

Address: PO Box 21
Kallangur
QLD 4503

Telephone: 0417614406

Emergency telephone: 0402582383 (24 hrs)

2. HAZARDS IDENTIFICATION

NON HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS

Not classified as Hazardous according to NOHSC:1008(2004)

Not classified as Dangerous Goods according to ADG Code 7th Ed.

Risk phrases: R36 - Irritating to eyes

Safety phrases: S25 - Avoid contact with eyes
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion (by weight)
Polyoxyethylene (20) sorbitan monolaurate	9005-64-5	100%

4. FIRST AID MEASURES

Danger / Environment / Hazards

1. Remove affected person from hazard or hazard from person, whichever is safer to prevent further exposure.

Specific contact pathway first aid advice

IF SWALLOWED:

1. For advice, contact a Poisons Information Centre, Doctor or Ambulance immediately.
2. If swallowed do NOT induce vomiting; further injury may occur.
3. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
4. Observe the patient carefully.
5. Never give liquid to a person showing signs of being sleepy or with reduced awareness i.e. becoming unconscious.
6. Give water to rinse out mouth, then provide water slowly and as much as the affected person can comfortably drink.
7. Transport to hospital or doctor without delay.

EYE CONTACT:

1. Immediately hold eyelids apart and flush the eye continuously with running water.
2. If only one eye is affected, flush with the affected eye lower than the unaffected eye.
3. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
4. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
5. Cover the eye loosely with a non-stick dressing or clean cloth when flushing ends or runs out.
6. Transport to hospital or doctor without delay.
7. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

SKIN CONTACT:

1. Immediately remove all contaminated clothing, including footwear.
2. Flush skin and hair with running water (and soap if available).using safety shower were available.
3. Seek medical attention in event of irritation.

NOTES TO DOCTOR OR AMBULANCE:

- Treat symptomatically.
- Contact Poisons Information Centre or Toxicology Service for further advice if required.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Fine water spray, foam, dry chemical or carbon dioxide.

Hazards from combustion products

May produce oxides of carbon if combusted.

Precautions, special protective equipment (also refer to Sections 8, 10 of this document)

Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Wear self-contained breathing apparatus if material is combusting.

6. ACCIDENTAL RELEASE MEASURES

Small spills (e.g. 20 L drum)

Use an appropriate amount of adsorbent material, such as soil or diatomaceous earth, to contain the spill and soak up excess material.

Dispose of contaminated material appropriately.

Large spills (e.g. 1000 L intermediate bulk container)

First, contain the spill by using sufficient quantities of inert materials such as soil, sand, gravel etc.

Second, soak up spillage with adsorbent materials such as soil or diatomaceous

earth.

Wet vacuuming can be used if available.

Prevent any flows to storm water drains or waterway catchments.

Dispose of contaminated materials appropriately.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes.

Storage: Keep out of reach of children.
Store under cover and in a safe place.
Store in the tightly closed original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National exposure standards: No exposure standard allocated

Biological limit values: No biological limit allocated.

Engineering controls: None

Personal protective equipment: Eye/face: wear safety goggles (non vented or indirect vented types only).
Skin: wear chemical resistant gloves made from Nitrile, Neoprene, PVC or natural rubber.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	clear, pale yellow liquid
Odour:	mild oily odour
pH:	Not applicable
Vapour pressure:	<0.1 KPa at 20°C
Vapour density:	Not available
Boiling point/range:	>100°C
Freezing/melting point:	7°C
Solubility:	Soluble in water

Density:	1100 Kg/m ³
Flash point:	>149°C
Flammability (explosive) limits:	Not available
Ignition temperature:	Not available
Viscosity:	Moderately viscous but flows freely

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Avoid extreme heat.
Incompatible materials:	Avoid contact with oxidizing agents.
Hazardous decomposition products:	In a fire: oxides of carbon (carbon monoxide, carbon dioxide)
Hazardous reactions:	None known.

11. TOXICOLOGICAL INFORMATION

	Potential Acute Health Effects
Inhalation:	Not expected to cause acute health effects
Skin contact:	Not expected to cause acute health effects
Eye contact:	Direct contact with the eyes may cause irritation (redness, pain)
Ingestion:	May cause irritation of the gastrointestinal tract and mucous membrane (burning sensation)

Chronic health effects: No ingredients have been classified as carcinogenic, mutagenic or teratogenic.

Animal toxicity data - product:

Oral toxicity (LD ₅₀ rat)	>33000 mg/Kg
Dermal (rabbit)	non irritating - 7 days
Eye (rabbit)	non irritating - 7 days

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Not classified as harmful to aquatic organisms according to NOHSC:1008(2004)
LC₅₀ fish (rainbow trout) 216 mg/L; 96 hr
LC₅₀ daphnia magna >100 mg/L; 96 hr

Persistence/degradability

Product:

Readily degradable.

Mobility

No data available

13. DISPOSAL CONSIDERATIONS

Small quantities:

Sewage disposal is only allowable if TW-20 satisfies local authority requirements. The clean container should be prepared (e.g. cut, punctured, crushed) in accordance with disposal facility requirements.

Large quantities:

Contact a licensed waste disposal company.

14. TRANSPORT INFORMATION

Not classified as Dangerous Goods according to ADG Code 7th Ed.

UN number:	Not applicable
UN proper shipping name:	Not applicable
Class and Subsidiary Risk(s):	Not applicable
Packing Group:	Not applicable

Special precautions for user:	None
Hazchem code:	Not applicable

15. REGULATORY

TW-20 is not a regulated material.

No Poisons Schedule number has been allocated to TW-20 or its ingredients according to SUSDP No.23 (2008)

16. OTHER INFORMATION

This material can make surfaces slippery. Be mindful of this in the event of spills.

MSDS creation date: 9th February 2010
Revised:

The following codes and databases were referred to in the creation of this document:

NOHSC:2011(2003); NOHSC:1008(2004); ADG Code 7th Ed; SUSDP No.23 (2008); HSIS;
TOXNET

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