

Material Safety Data Sheet

PURE MAX

1. Identification of the substance/preparation and company/undertaking:

MAPP Number: MAPP 14952

Trade Name: Pure Max

Recommended Uses: A growth regulator for use in cereal and ryegrass crops.

Manufacturer/Supplier: Pure Amenity Ltd
12 Bridlington Rd
Stamford Bridge
East Riding of Yorkshire
YO41 1HA
United Kingdom

Telephone number: 0845 257 4710

e-mail: martin@pureamenity.co.uk

Emergency Telephone Nos: 0845 459 4039 [Pure Amenity 24 hrs.]
0870-600-6266 [UK National Poisons Control
Information Service (NPIS) Centre]
01-8379964/66 [Poisons Information Centre,
Beaumont Hospital, Beaumont, Dublin 9, Ireland]

2. Composition/Information on Ingredients:

HAZARDOUS COMPONENTS:

Component	CAS Reg. No.	EINECS ELINCS No.	Conc. % w/w	Risk Phrases*	Hazard Symbol
Trinexapac-ethyl	95266-40-3	-	25	R50, 53	N
Poly(oxy-1,2-ethanediyl),alphaisotridecyl-omegahydroxy-	9043-30-5	-	20-30	R22, 41 R51, 53	N, Xn
Plus water to make up the balance.					
* See Section 16 for details of risk phrases.					

3. Hazards Identification

Health hazards: May cause sensitisation by skin contact.

Environmental hazard in case of accident (spillage or leakage): Toxic to aquatic organisms; may cause long term adverse effects in the aquatic environment.

4. First Aid Measures

General: Have the product container, label or Materials Safety Data Sheet with you when calling the Poisons Information Service, Pure Amenity, a physician or when going for medical treatment. Move out of contaminated area and place victim in the recovery position if necessary. Remove contaminated clothing and dispose of safely.

Skin Contact: Wash affected area immediately with plenty of water. Remove contaminated clothing and wash thoroughly before re-use. If irritation persists, call a physician.

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes, including under eyelids. Remove contact lenses if worn. Immediate medical attention is required.

Inhalation: Remove patient to fresh air and seek medical advice. Keep the patient warm and at rest. Administer artificial respiration if the patients' breathing is irregular or has stopped. Contact a physician or the Poison Control Centre immediately.

Ingestion: If swallowed, rinse mouth with clean water and dispose of residues safely. Do not induce vomiting. Contact a physician immediately and show this MSDS or the label.

Guide to Doctors: Treat symptoms as they occur. There is no specific antidote for this product.

5. Fire-fighting measures:

Extinguishing Media for small fires: Use alcohol-resistant foam, dry chemical (e.g. sand), water spray or carbon dioxide.

Extinguishing Media for larger fires: Use alcohol-resistant foam or a water spray.

Extinguishing Media which should not be used for safety reasons: DO NOT USE a solid water stream as this may scatter and spread the fire.

Specific hazards during fire-fighting: During a fire dense black smoke will be produced as the product contains combustible organic components. This will contain the products of combustion which may be toxic (see section 10 below). Evacuate downwind.

Special protective equipment for fire-fighters: Wear full protective clothing and self-contained breathing apparatus. DO NOT breathe fumes.

Further Information: Contain fire-fighting water with sand or some such bunding material to prevent entry to drains or water courses. Avoid breathing smoke. Cool closed containers exposed to the fire with a water spray.

6. Accidental release measures:

Personal precautionary measures: Wear the personal protective equipment outlined in section 8 below. Remove contaminated clothing immediately. Wash skin area with soap and water. Wash clothing before re-use.

Environmental protection measures: Keep the area isolated and do not allow contamination to enter drains or waterways. Prevent further leakage if safe to do so. Spillage or uncontrolled discharges into watercourses must be alerted to the National Rivers Authority or Environmental Agency (Tel: 0800 807060).

Procedures for cleaning/absorption: Soak up with sand, earth or other non-combustible absorbent material using mechanical handling equipment and place in containers for disposal according to local/national regulations (see section 13). Clean contaminated floors and objects thoroughly and dispose of cleaning equipment safely. For large spillages, barricade the area and consult the manufacturer.

7. Handling and storage:

Handling: Use the personal protective equipment detailed in section 8. Avoid contact with eyes or skin. When using, do not eat, drink or smoke and wash hands and exposed skin after work.

Storage: Store in a cool dry and well-ventilated place in the original containers away from any source of ignition and protect from excessive heat or cold. Keep in an area accessible to authorised personnel only. Keep out of reach of children and store away from food, drink and animal feeding stuffs.

Additional information: The product is stable for at least two years when stored at ambient temperatures in the unopened container. Ensure temperature does not exceed 40°C.

8. Exposure controls/Personal protection:

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

Components	Exposure limits	Values
Trinexepac-ethyl	10 mg/m ³	8 h TWA

Engineering measures to reduce exposure: Engineering controls to avoid exposure are preferable to personal protective equipment where practically feasible to use. Good general ventilation is sufficient for most operations. Assess the exposure and deploy additional measures if there is a chance that the relevant exposure limit may be exceeded.

Personal protective equipment: Keep work clothes separate from other clothing. Clothing that cannot be cleaned should be burned. When using, consult the label for appropriate protective equipment. In all other situations, use the following personal protective equipment.

Eye protection: Follow local site procedure. Eye protection is not normally required but when used, should comply with EN 166 certification.

Hand protection: Chemical-resistant gloves made of nitrile rubber are needed with a breakthrough time appropriate to the length of exposure. Wash contamination from the gloves immediately and dispose of safely if perforated or contaminated on the inside. Wash hands before eating, drinking or smoking and before using the toilet.

Respiratory protection: No respiratory protection is normally required but if there is a risk of inhaling the spray mist, use a filter respirator with a pesticide canister. Note that these provide limited protection and in the event of an emergency spillage or where the exposure level is unknown, self-contained breathing apparatus should be used.

Skin and body protection: Wear suitable protective clothing based on the potential exposure risk over normal clothes to provide two barriers. When finished, wash with soap and water after removing protective clothing. Take a shower if necessary. Decontaminate clothing before re-use or use disposable clothing. Do not eat, drink or smoke while working. Store away from food, drink or animal feeding stuffs.

9. Physical and chemical properties:

Appearance:	Liquid.
Formulation:	Emulsifiable concentrate.
Colour:	Yellow – red/brown.
Odour:	Not pleasant.
Surface tension:	28.2 – 28.5 mN/m at 20°C
pH:	2-6 @ 1% w/v
Density:	0.96 – 1.00 g/cm ³ @ 20°C
Flash point:	79°C
Oxidising properties:	Not oxidising
Explosive properties:	Not explosive
Water solubility:	Miscible.
Dynamic Viscosity:	10.01 mPas at 20°C

10. Stability and reactivity:

Hazardous decomposition products: Combustion or thermal decomposition will result in the release of toxic or irritant vapours.

Hazardous reactions: Stable under normal conditions and hazardous polymerisation does not occur.

11. Toxicological information:

Oral toxicity (LD50):	>5000 mg/kg (rat)
Acute dermal toxicity (LD50):	>4000 mg/kg (rat).
Skin irritation:	Non-irritating to skin (rabbit).
Eye irritation:	Non-irritating to eyes (rabbit).
Sensitisation:	sensitising to skin (Guinea pig).

Note: Has been shown to be non-carcinogenic, not mutagenic and not teratogenic.

12. Ecological information:

Ecotoxicological effects:

Toxicity to fish (LC50):	5-50 mg/l ([zebra fish]. Exposure time 96 hours.
Toxicity to algae (EC50):	ca 1.6 mg/l (<i>Anabaena flos-aquae</i> [blue-green algae]). Exposure time 120 hours.
Toxicity to aquatic	25-50 mg/l (<i>Daphnia magna</i> [water flea]). Invertebrates (EC50): Exposure time 48 hours.

Note: Trinexepac-ethyl does not bioaccumulate and is non-persistent in water. In soil it is of medium mobility but low persistence.

13. Disposal considerations:

Waste from residues and unused product: In accordance with current regulations after consultation with a disposal site operator and/or the responsible authority, this product may be taken to a waste disposal site or an incineration plant.

Contaminated packaging: Empty containers and triple rinse. Dispose of empty containers according to the 'Code of Practice for the Safe Use of Pesticides on Farms and Holdings' available from HMSO. Do not re-use container for any purpose.

14. Transport information:

LAND/SEA/AIR (RID / ADR / IMDG / IATA)

Labels

UN Number

Packaging group

9

3082

III

Description of goods:ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S., (TRINEXEPAC-ETHYL).

15. Regulatory information:

This product has been classified according to 'The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3 and any subsequent amendments. This product is classed as dangerous according to EC Directive on dangerous preparations 1999/45/EC. Hazardous components which must be listed on the label:

- Trinexepac-ethyl

Hazard symbol:**Xi****IRRITANT****Classification :****N****DANGEROUS FOR THE ENVIRONMENT****Risk phrases (R):**

R43

May cause sensitisation by skin contact.

R51/53

Toxic to aquatic organisms; may cause long term adverse effects in the aquatic environment.

Safety phrases:

S2

Keep out of reach of children

S13

Keep away from food, drink and animal feeding stuffs.

S20/21

When using, do not eat, drink or smoke.

S35

This material and its container must be disposed of in a safe way.

S36/37

Wear suitable protective clothing and gloves.

S57

Use appropriate containment to avoid environmental contamination

Special note: To avoid risks to man and the environment, comply with the instructions for use.

16. Other information:

Health and Environmental Hazards:

Text of R phrases mentioned in Section 2.

Risk phrases (R)	R22	Harmful if swallowed.
	R41	Risk of serious damage to eyes.
	R50, 53	Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment
	R51, 53	Toxic to aquatic organisms; may cause long term adverse effects in the aquatic environment

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Disclaimer: The information contained in this MSDS is designed to give general health and safety guidance on the storage and transport of the substance/preparation to which it relates. Requirements arising from a Risk Assessment of the substance/preparation in a particular working environment should take precedence over any of the guidance contained in this MSDS where there is a difference in the information given. The information contained in this MSDS is accurate at the date of publication and will be updated as and when appropriate. Liability will not be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this MSDS.

Compiled in accordance with EC Directive 91/155/EEC and subsequent amendments EC Directives 93/112/EEC and 2001/58/EC.