SAFETY INFORMATION SHEET

Date of Issue: Feb 2004
Date of Issue: June 2015

1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: EARLY START

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant uses: Turf wetting agent. For professional use.
Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

Vitax Ltd
Owen Street, Coalville, Leics LE67 3DE
Tel: 01530 510060
e-mail: info@vitax.co.uk

1.4 Emergency telephone number: Tel: 01530 510060 (office hours)

2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

CLP Regulation (EC) nº 1272/2008:

Acute toxicity, Category 4, Inhalation, H332
Eye irritation, Category 2, H319
Acute toxicity, Category 4, Skin, H312

Directive 67/548/EC and Directive 1999/45/EC:

Harmful by inhalation and in contact with skin.
Irritating to eyes.
Toxic for aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements:

CLP Regulation (EC) nº 1272/2008:

Symbol(s)

Signal Word : Warning

Hazard indications:
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H312: Harmful in contact with skin.
H411: Toxic to aquatic life with long lasting effects.

Cautionary advice:
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P273: Avoid release to the environment.
P280a: Wear protective gloves and eye/face protection.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

Hazardous component(s) for labelling polyether modified trisiloxane

Supplementary information: EUH210: Safety data sheet available on request

2.3 Other hazards: Non-applicable

3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: Not applicable

3.2 Mixtures:

In accordance with Annex II of Regulation (EC) nº1907/2006 (point 3), the product contains:

INGREDIENT	CAS/EINECS	Classification	Concentration
polyether modified trisiloxane	134180-76-0	Acute Tox., 4, Skin, H312 Acute Tox., 4, Inhal'n, H332 Aquatic Chronic, 2, H411 Eye Dam. / Eye Irrit., 2, H319	>= 75 - <= 100

The full text of the risk phrases and hazard statements is contained in section 16.
All existing information on exposure limits is contained in section 8.

4: FIRST AID MEASURES

4.1 Description of first aid measures: Remove contaminated clothing.

By eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
By skin contact:	Wash thoroughly with soap and water.
By ingestion:	Rinse out the mouth with water. Seek immediate medical advice/attention.
By inhalation:	Keep patient calm, remove to fresh air. If symptoms persist: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed:

No significant reaction of the human body to the product known.

4.3 Indication of any immediate medical attention and special treatment needed:

Symptomatic treatment (decontamination, vital functions)

5: FIREFIGHTING MEASURES

5.1 Extinguishing media:	Suitable extinguishing media: water spray, dry powder, foam, carbon dioxide.

5.2 Special hazards arising from the substance or mixture:

Carbon monoxide, carbon dioxide, silicon dioxide can be released in a fire.

5.3 Advice for firefighters:	Special protective equipment: Wear self-contained breathing apparatus and chemical-protective clothing.
Additional provisions:	Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective clothing.

6.2 Environmental precautions:	Do not discharge into the soil/subsoil. Do not discharge into drains, surface or groundwater.

6.3 Methods and material for containment and cleaning up:

Absorb the spillage using inert absorbent material eg sand, kieselguhr or universal binder. For large spillages dyke spillage and pump of product. Dispose of absorbed material in accordance with regulations.

7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

Advice on safe handling:	Formation of aerosols or vapours during processing and application should be prevented. Wear respiratory protection when spraying.
General protective measures:	Avoid contact with eyes and skin. Do not inhale aerosols
Hygiene measures:	Do not eat, drink or smoke when working. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work. Use barrier skin cream. Keep away from foodstuffs and beverages.

7.2 Conditions for safe storage, including any incompatibilities:

Keep tightly closed. Protect from freezing.

7.3 Specific end use(s):	Turf wetter

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

There are no environmental limits for the substances contained in the product

DNEL (Workers):	not applicable
DNEL (Population):	not applicable
PNEC:	not applicable

8.2 Exposure controls:

Personal protective equipment	
Respiratory protection	In case of formation of vapours/aerosols: Short term: filter apparatus, Filter A-P2
Specific protection for the hands	Suitable chemical resistant gloves (EN 374) with prolonged, direct contact (Recommended: protective index 6, corresponding to >480 minutes of permeation time according to EN 374) eg nitrile rubber (0.4mm), butyl rubber (0.7mm).
Eye protection	Goggles, or face shield if necessary eg EN 166
Body protection	protective clothing; a protective ointment is recommended.
General safety and hygiene measures	Avoid contact with eyes and skin. Do not inhale aerosols.

9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Form:	Liquid
Colour:	light yellow
Odour:	characteristic
Melting temperature:	not measured
Boiling temperature:	not measured
Flash point:	102 °C
Method: DIN EN 22719 (DIN 51758)	
Ignition temperature:	not measured
Lower explosion limit:	not measured
Upper explosion limit:	not measured
Vapour pressure:	not measured
Density:	approx. 1,01 g/cm3 at 25 °C
Water solubility:	soluble
pH:	6 – 8 at 40 g/l water at 25 °C
Viscosity, dynamic:	40 - 90 mPa.s at 25 °C
Method: DIN 53019	

9.2 Other information: None

10: STABILITY AND REACTIVITY

10.1 Reactivity: No hazardous reactions if stored and handled as prescribed/indicated.

10.2 Chemical stability: Chemically stable if stored and handled as prescribed/indicated.

10.3 Possibility of hazardous reactions: No hazardous reactions if stored and handled as prescribed/indicated.

10.4 Conditions to avoid: See section 7 Handling and Storage

10.5 Incompatible materials: Substances to avoid: strong acids, alkalis and oxidising agents.

10.6 Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/ indicated.

11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute oral toxicity:	LD50 Species: rat Dose: 3.200 mg/kg
Acute inhalation toxicity:	LC50 aero. Species: rat Dose: 1,08 mg/l Exposure time: 4 h Method: OECD 403 Source: Evonik Goldschmidt GmbH
	Acute toxicity estimate Dose: 14,67 mg/l Method: Calculation method
Acute dermal toxicity:	LD50 Species: rabbit Dose: 1.550 mg/kg LD50 Species: rat Dose: > 2.000 mg/kg
Skin irritation:	slight irritant effect - does not require labelling
Eye irritation:	Species: rabbitstrong irritant
Sensitization:	Species: Guinea pig Classification: Did not cause sensitization on laboratory animals: non-sensitizing.
Remarks:	Harmful by inhalation and in contact with skin. Irritant to eyes. The toxicological data refer to the undiluted 100 % product. Risk of serious damage to eyes. Irritant to skin

12: ECOLOGICAL INFORMATION

The experimental information related to the ecotoxicological properties of the mixture itself is not available

12.1 Toxicity:

Toxicity to fish: LC50	Species: rainbow trout Dose: 2,1 mg/l	
Toxicity to daphniae: EC50	Species: Daphnia magna Dose: 1,1 mg/l	
Toxicity to algae: EC50	Species: Scenedesmus subspicatus	Dose: 28,2 mg/l refer to biomass
EC50	Species: Scenedesmus subspicatus	Dose: 152,2 mg/l growth rate

12.2 Persistence and degradability: Not available

12.3 Bioaccumulative potential: Significant accumulation in organisms is not to be expected

12.4 Mobility in soil: Adsorption to solid phase is expected

12.5 Results of PBT and vPvB assessment: The product does not contain a substance fulfilling PBT or vPvB criteria

12.6 Other adverse effects: The product does not contain substances listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer

12.7 Additional information

The product is considered to be a water pollutant. Do not discharge product unmonitored into the environment. The ecotoxicological data refer to the undiluted 100 % product. The product does not cause essential disturbances of ecological processes and equilibriums, when used in the recommended concentrations and ways of applications.

13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Must be disposed of or incinerated in accordance with local regulations
The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted.
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the product.

14: TRANSPORT INFORMATION

General

This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Product not so packed and labelled must show the following.

Land transport

ADR:

Class: 9
Packaging group: III
Orange plate: Hazard no.: 90
Substance number: 3082
Description of the goods: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard release: Polyethersiloxane
Label: 9 miscellaneous substances and articles

RID:

Class: 9
Packaging group: III
Orange plate: Hazard no.: 90
Substance number: 3082
Description of the goods: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard release: Polyethersiloxane
Label: 9 miscellaneous substances and articles

Inland navigation transport

ADNR:

Class: 9
Item: M6
Description of the goods: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard release: Polyethersiloxane
Label: 9 miscellaneous dangerous goods

Sea transport

IMDG:

Class: 9
Packaging group: III UN-No: 3082
EmS : F-A S-F
Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard release: Polyethersiloxane
Label: 9 miscellaneous dangerous goods
Marine pollutant

Air transport

ICAO/IATA:

Class: 9
Packaging group: III UN-No: 3082
Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard release: Polyethersiloxane
Label: 9 Miscellaneous dangerous goods

15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example COSHH Essentials.

15.2 Chemical safety assessment: none

16: OTHER INFORMATION

Modifications related to the previous safety data sheet:

CLP datasheet –all sections updated.

R-phrases and H-phrases

H312: Harmful in contact with skin.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H411: Toxic to aquatic life with long lasting effects.

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy.
This information cannot be considered a guarantee of the properties of the product, it is simply a description of the safety requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.