

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

- 1.1 Product Identifier:** **STAY WET PLUS**
- 1.2 Relevant uses of the substance or mixture and uses advised against:**
Water absorbent granule/fertiliser
- Uses advised against:** The use of the substance should be limited to those specified on the label
- 1.3 Details of the supplier of the safety data sheet:**
Vitax Limited, Owen Street, Coalville LE67 3DE
Tel : +44 (0)1530 510060 E mail : info@vitax.co.uk
- 1.4 Emergency phone number** Tel: +44 (0)1530 510060 (office hours)

2. HAZARDS IDENTIFICATION

- 2.1 Classification:** Not classified as dangerous.
- 2.2 Label Elements:** n/a.
- 2.3 Other Hazards:** n/a.

3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.2 Mixtures:** Combined water absorbent polyacrylamide granule/ slow release fertiliser.

| Chemical Name | CAS-No./ EINECS-No. | REACH number | Symbol(s) and Phrases | Concentration [%] |
|------------------|------------------------|--|--|-------------------|
| Ammonium nitrate | 6484-52-2 229-347-8 | 01-2119490981-27-XXXX REACH registration number | GHS03 Ox Sol 3 H272: May intensify fire; oxidiser Eye Irrit. 2 H319: Causes serious eye irritation | >5 conc <10 |

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye contact – Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Skin contact – immediately wash with soap and water. If skin irritation occurs consult a doctor.

Ingestion – wash out mouth with water and seek medical advice.

Inhalation – remove to fresh air. If unconscious place in recovery position and seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Ingestion may provoke the following symptoms: Methaemoglobinanaemia

4.3 Indication of immediate medical attention and special treatment needed:

Treat according to symptoms (decontamination, vital functions), treat with toluonium chloride to reverse methaemoglobinanaemia.

5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing Media:** Non flammable
If involved in a fire use water spray.
- 5.2 Special hazards arising from substance or mixture:**
In intense heat, product decomposition will release toxic fumes.
- 5.3 Advice for firefighters:** Wear self-contained breathing apparatus in confined spaces. Contain contaminated run-off.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions:** Avoid inhalation of dust and contact with skin and eyes. Wash hands and exposed skin after handling. Keep away from children.
- 6.2 Environmental precautions:** Do not allow to enter drains or sewers. Retain and dispose of contaminated wash water.
- 6.3 Methods and material for containment and cleaning up:**
Sweep up carefully to avoid raising dust and transfer to suitable marked container.

7. HANDLING & STORAGE

- 7.1 Precautions for Safe Handling:** Keep away from direct sunlight. Keep away from heat. Protect from contamination. Protect from moisture. Do not block stack pallets.

7.2 Conditions for Safe Storage: Store in original containers, tightly closed in a secure, well ventilated, cool but frost-free, dry area. Store clear of foodstuffs and in a separate stack from herbicides.

7.3 Specific end use: Fertiliser.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: Dust (total inhalable) LTEL 10 mg/m³ (8hr TWA).
Dust (respirable) LTEL 4 mg/m³ (8hr TWA).

DNEL

Ammonium Nitrate :

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Specific effects
Exposure time: 1 d
Value: 37,6 mg/m³
End Use: Workers
Exposure routes: Skin contact
Potential health effects: Specific effects
Exposure time: 1 d
Value: 21,3 mg/kg
End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Specific effects
Exposure time: 1 d
Value: 12,8 mg/kg
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Specific effects
Exposure time: 1 d
Value: 11,1 mg/m³

PNEC

Ammonium Nitrate :

Fresh water
Value: 0,45 mg/l
Marine water
Value: 0,045 mg/l
Ceiling Limit Value
Value: 4,5 mg/l

8.2 Exposure Controls:

Personal protective equipment

Respiratory protection : Breathing apparatus only if aerosol or dust is formed.
Respirator with a particle filter (EN 143) P1 filter
Hygiene measures : Wash hands before breaks and at the end of workday.

Environmental exposure controls

General advice : Do not empty into drains. Retain and dispose of contaminated wash water.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

| | |
|----------------------------|------------------------------------|
| Appearance | grey to light brown granular solid |
| Odour | none |
| pH | approx 6 |
| Boiling point | N/A |
| Melting point | N/A |
| Flammability | N/A |
| Flammability limit (% v/v) | N/A |
| Autoflammability | N/A |
| Thermal decomposition : | ca. 130 °C |
| Explosivity | N/A |
| Oxidising properties | N/A |
| Vapour Pressure | N/A |
| Relative density | 900 ± 50 kg/m ³ |
| Solubility | insoluble but swells to form gel |

9.2 Other Information: To avoid thermal decomposition, do not overheat., the product may be capable of self-sustaining progressive thermal decomposition.

10. STABILITY & REACTIVITY

- 10.1 Reactivity:** Stable under recommended storage conditions
- 10.2 Stability:** No decomposition if stored and applied as directed., Decomposes on heating.
- 10.3 Possibility of hazardous reactions** Reacts with strong alkalis to release ammonia
- 10.4 Conditions to Avoid:** Store away from heat and sources of ignition
- 10.5 Incompatible materials:** Sulphur, chlorites, chloride, chlorates, Hypochlorites, acid or alkaline reacting substances, flammable oxidizable substances, nitrites, metallic salts, metallic powder, herbicide, chlorinated hydrocarbons, organic compounds.
- 10.6 Hazardous Decomposition Products:**
Decomposes at high temperatures producing toxic hydrocyanic acid, ammonia, carbon and nitrogen oxide fumes.

11. TOXICOLOGICAL

Acute Toxicity

Oral LD50 : >5000 mg/kg (rat) estimated

Dermal LD50 : >2000 mg/kg (rat) estimated

Skin Irritation: No irritant effect.

Eye Irritation : Moderate eye irritation.

Sensitisation: Not sensitizing

Genotoxicity in vitro : Contains no hazardous ingredients according to GHS

Carcinogenicity : Contains no ingredient listed as a carcinogen

Reproductive toxicity : No toxicity to reproduction

Teratogenicity : Did not show teratogenic effects in animal experiments.

STOT - single exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure : Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Further information : The product was not tested. The statement was derived from products of similar structure and composition.

Components:

Ammonium Nitrate :

Acute oral toxicity : LD50: > 2.950 mg/kg, rat, OECD Test Guideline 401

Acute inhalation toxicity : > 88,8 mg/l, No information available.

Acute dermal toxicity : LD50: > 5.000 mg/kg, rat, OECD Test Guideline 402

Skin corrosion/irritation : rabbit, Result: non-irritant, OECD Test Guideline 404

Serious eye damage/eye irritation: rabbit, Result: Irritant, OECD Test Guideline 405

Respiratory or skin sensitization: Result: Does not cause skin sensitization.

Germ cell mutagenicity

Genotoxicity in vitro : Result: negative, OECD Test Guideline 471

Carcinogenicity : rat, Animal testing did not show any carcinogenic effects.

Reproductive toxicity : rat, Animal testing did not show any effects on fertility.

Teratogenicity : rat, Did not show teratogenic effects in animal experiments.

STOT - repeated exposure : rat, Oral, Exposure time: 28 d, NOAEL: > 1.500 mg/kg

STOT - repeated exposure : rat, Oral, Exposure time: 52 w, NOAEL: = 256 mg/kg, OECD Test Guideline 453

STOT - repeated exposure : rat, by inhalation, Exposure time: 2 w, NOAEL: >= 185 mg/kg, Repeated Dose Inhalation Toxicity: 28-day or 14-day Study.

12. ECOLOGICAL INFORMATION

12.1 Toxicity:
Fish - not considered toxic
Daphnia - not considered toxic
Algae - not considered toxic

Components:

Ammonium Nitrate :

Toxicity to fish : LC50: > 100 mg/l, 96 h, Fish

Toxicity to daphnia and other aquatic invertebrates: EC50: 490 mg/l, 48 h, Daphnia

Toxicity to algae : EC50: 1.700 mg/l, 10 d, Selenastrum capricornutum (green algae)

| | |
|--|------------------------------------|
| 12.2 Persistence and degradability: | Not readily biodegradable |
| 12.3 Bioaccumulative potential: | Bioaccumulate is unlikely |
| 12.4 Mobility in soil: | groundwater contamination unlikely |
| 12.5 Results of PBT and vPvB: | not classified. |
| 12.6 Other adverse data: | no data |

13. DISPOSAL CONSIDERATIONS

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|---|---|
| 13.1 Waste treatment methods European waste catalogue: | In accordance with local, state and federal waste legislation. |
| 13.2 Uncleaned packagings: | |
| Recommendation: | Can be landfilled or incinerated in accordance with local, state and federal waste legislation. |

14. TRANSPORT INFORMATION

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| 14.1 UN number: | Product is unclassified for transport |
| 14.2 UN proper shipping name: | Product is unclassified for transport |
| 14.3 Transport hazard | Product is unclassified for transport |
| 14.4 Packing group: | Product is unclassified for transport |
| 14.5 Environmental hazards: | Product is unclassified for transport |
| 14.6 Special precautions for user: | Product is unclassified for transport |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code | Applicable for Maritime bulk transport only. Check with carrier. |

15. REGULATORY INFORMATION

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|--|---|
| 15.1 Safety, health and environmental regulations/legislation specific to this substance: | Not classified as dangerous. This substance is classified and labelled in accordance with regulation 1999/45/EC, 1272/2008, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations, Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. |
| Inventory | Status |
| JAPAN (ENCS) | E: All ingredients are on the inventory or exempt from listing. |
| 15.2 Chemical Safety Assessment | not undertaken for this substance |

16. OTHER INFORMATION

| | |
|-----------------------------|---|
| Further Information | This substance is classified and labelled in accordance with regulation 1999/45/EC, 1272/2008, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations, Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. |
| Reason for revision: | Replaces version dated Jan 2015. Section 1.3 updated. |
| Legend: | |
| RID: | Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) |
| ICAO: | International Civil Aviation Organization |
| ADR: | Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| IMDG: | International Maritime Code for Dangerous Goods |
| IATA: | International Air Transport Association |
| GHS: | Globally Harmonized System of Classification and Labelling of Chemicals |
| EINECS: | European Inventory of Existing Commercial Chemical Substances |

SAFETY DATA SHEET

Date of Issue: Jan 2015
Revision: Dec 2020

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|------------------|---|
| CAS: | Chemical Abstracts Service (division of the American Chemical Society) |
| PNEC: | Predicted No-Effect Concentration (REACH) |
| LC50: | Lethal concentration, 50 percent |
| LD50: | Lethal dose, 50 percent |
| Liability | The product label provides information on the use of the product: do not use otherwise, unless you have assessed any potential hazard involved and the safety measures required. Prepared by VITAX LTD, for Health and Safety purposes from the best knowledge available at the time of printing. |