

PLANT HEALTH technologies FOLO SPRAY 20-10-30

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : PLANT HEALTH technologies FOLO SPRAY 20-10-30
Product code : M77378

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

JR Simplot Company
P.O. Box 70013
Boise, ID 83707
T 1-208-336-2110

1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Oxidising Solids, Category 3 H272 May intensify fire; oxidiser
Serious eye damage/eye irritation, Category 2B H320 Causes eye irritation

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H272 - May intensify fire; oxidiser
H320 - Causes eye irritation

Precautionary statements (GHS-US) :

P210 - Keep away from heat.
P220 - Keep/Store away from clothing and other combustible materials
P221 - Take any precaution to avoid mixing with combustible materials
P264 - Wash hands thoroughly after handling
P280 - Wear protective gloves, eye protection, face protection
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists: Get medical attention
P370+P378 - In case of fire: Use chemical type foam, carbon dioxide, dry chemical, water fog or spray to extinguish
P501 - Dispose of contents/container to ... in accordance with Federal, state, and local regulations

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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3.2. Mixture

| Name | Product identifier | % | GHS-US classification |
|----------------------------|---------------------|---|---------------------------------------------------------------|
| potassium nitrate | (CAS No) 7757-79-1 | | Eye Irrit. 2B, H320 |
| urea | (CAS No) 57-13-6 | | Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335 |
| Monopotassium phosphate | (CAS No) 7778-77-0 | | Not classified |
| edta iron(iii) sodium salt | (CAS No) 15708-41-5 | | Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335 |
| EDTA Manganese Sodium | (CAS No) 15375-84-5 | | Eye Irrit. 2B, H320 |
| Zinc EDTA | (CAS No) 14025-21-9 | | Not classified |
| Copper EDTA | (CAS No) 14025-15-1 | | Not classified |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Allow breathing of fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (acute and delayed)

- Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

- Reactivity : Product is an oxidizer.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

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6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| | | |
|------------------------------------------------|--------------------------------|---------------------|
| potassium nitrate (7757-79-1) | | |
| Not applicable | | |
| urea (57-13-6) | | |
| Not applicable | | |
| Monopotassium phosphate (7778-77-0) | | |
| Not applicable | | |
| edta iron(iii) sodium salt (15708-41-5) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 1 mg/m ³ |
| EDTA Manganese Sodium (15375-84-5) | | |
| Not applicable | | |
| Copper EDTA (14025-15-1) | | |
| Not applicable | | |
| Zinc EDTA (14025-21-9) | | |
| Not applicable | | |

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

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| | |
|--------------------------------------------|------------------------|
| Appearance | : Blue granules. |
| Colour | : Blue |
| Odour | : Fertilizer like odor |
| Odour threshold | : No data available |
| pH | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Log Pow | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive limits | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Product is an oxidizer.

10.2. Chemical stability

Product is stable at ambient temperature and pressure, under normal storage and handling conditions. Not established.

10.3. Possibility of hazardous reactions

Avoid mixing with mineral acids and chlorine. Not established.

10.4. Conditions to avoid

Excessive heat. Dust generation and damp areas. Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Mineral acids. chlorine. Oxidizing agent. Alkalis. Diesel. Oils and greases. Strong acids. Strong bases.

10.6. Hazardous decomposition products

When exposed to excessive heat, Carbon oxides, Nitrogen oxides, Sulfur oxides, some metallic oxides, and ammonia may be formed. fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| potassium nitrate (7757-79-1) | |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat | 3750 mg/kg (Rat) |
| LD50 dermal rat | > 5000 mg/kg |
| ATE US (oral) | 3750 mg/kg bodyweight |
| urea (57-13-6) | |
| LD50 oral rat | 8471 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 14300 mg/kg bodyweight; Rat; Experimental value) |
| LD50 dermal rat | > 3200 mg/kg (Rat; Literature study) |

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| urea (57-13-6) | |
|------------------------------------------------|------------------------------------------|
| LD50 dermal rabbit | > 21000 mg/kg (Rabbit; Literature study) |
| ATE US (oral) | 8471 mg/kg bodyweight |
| Monopotassium phosphate (7778-77-0) | |
| LD50 oral rat | 7100 mg/kg (Rat) |
| LD50 dermal rabbit | > 4640 mg/kg (Rabbit) |
| ATE US (oral) | 7100 mg/kg bodyweight |
| edta iron(iii) sodium salt (15708-41-5) | |
| LD50 oral rat | 5000 mg/kg (Rat) |
| ATE US (oral) | 5000 mg/kg bodyweight |

| | |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------|
| Skin corrosion/irritation | : Not classified. |
| Serious eye damage/irritation | : Causes eye irritation. |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified Based on available data, the classification criteria are not met |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : Not classified. |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |
| Potential adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/injuries | : Not expected to present a significant hazard under anticipated conditions of normal use. |

SECTION 12: Ecological information

12.1. Toxicity

| potassium nitrate (7757-79-1) | |
|-------------------------------------------|------------------------------------------------------------|
| LC50 fish 1 | 162 mg/l (96 h; Pisces; Lethal) |
| LC50 other aquatic organisms 1 | 39 mg/l (96 h; Daphnia magna) |
| EC50 other aquatic organisms 1 | 200 - 1000 mg/l (Plankton; Nocivity test) |
| LC50 fish 2 | 1378 mg/l (Poecilia reticulata) |
| LC50 other aquatic organisms 2 | 490 mg/l (48 h; Daphnia magna) |
| TLM fish 1 | 3000 mg/l (96 h; Lepomis macrochirus) |
| TLM fish 2 | 162 mg/l (96 h; Gambusia affinis) |
| Threshold limit other aquatic organisms 1 | 39 mg/l (96 h; Daphnia magna) |
| Threshold limit other aquatic organisms 2 | 490 mg/l (48 h; Daphnia magna) |
| urea (57-13-6) | |
| LC50 fish 1 | > 6810 mg/l (96 h; Leuciscus idus; Nominal concentration) |
| EC50 Daphnia 1 | > 10000 mg/l (48 h; Daphnia magna; Nominal concentration) |
| LC50 fish 2 | 17500 mg/l (96 h; Poecilia reticulata) |
| EC50 Daphnia 2 | > 10000 mg/l (24 h; Daphnia magna) |
| TLM fish 1 | 17500 ppm (96 h; Poecilia reticulata) |
| Threshold limit other aquatic organisms 1 | 120000 mg/l (16 h; Bacteria; Toxicity test) |
| Threshold limit other aquatic organisms 2 | > 10000 mg/l (Pseudomonas putida) |
| Threshold limit algae 1 | > 10000 mg/l (168 h; Scenedesmus quadricauda; Growth rate) |
| Threshold limit algae 2 | 47 mg/l (192 h; Microcystis aeruginosa; Growth rate) |

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| Monopotassium phosphate (7778-77-0) | |
|------------------------------------------------|----------------------------------------------|
| LC50 fish 1 | > 900 mg/l (48 h; Leuciscus idus) |
| EC50 other aquatic organisms 1 | 2 ppm (672 h; Potamogeton sp.; O2 evolution) |
| Threshold limit other aquatic organisms 1 | 1 ppm (672 h; Potamogeton sp.; O2 evolution) |
| Threshold limit algae 1 | 1 ppm (672 h; Elodea sp.; O2 evolution) |
| Threshold limit algae 2 | > 5 ppm (672 h; Elodea sp.; O2 evolution) |
| edta iron(iii) sodium salt (15708-41-5) | |
| LC50 fish 1 | 2592 mg/l (96 h; Pisces) |

12.2. Persistence and degradability

| PLANT HEALTH technologies FOLO SPRAY 20-10-30 | |
|------------------------------------------------------|---------------------------------------------------------------------|
| Persistence and degradability | Not established. |
| potassium nitrate (7757-79-1) | |
| Persistence and degradability | Biodegradability: not applicable. Not established. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |
| urea (57-13-6) | |
| Persistence and degradability | Inherently biodegradable. Hydrolysis in water. Not established. |
| ThOD | 0.27 g O ₂ /g substance |
| Monopotassium phosphate (7778-77-0) | |
| Persistence and degradability | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |
| edta iron(iii) sodium salt (15708-41-5) | |
| Persistence and degradability | Biodegradable in water. Not established. |
| EDTA Manganese Sodium (15375-84-5) | |
| Persistence and degradability | Not established. |
| Copper EDTA (14025-15-1) | |
| Persistence and degradability | Not established. |
| Zinc EDTA (14025-21-9) | |
| Persistence and degradability | Non degradable in the soil. Adsorbs into the soil. Not established. |

12.3. Bioaccumulative potential

| PLANT HEALTH technologies FOLO SPRAY 20-10-30 | |
|------------------------------------------------------|--------------------------------------------------------------------|
| Bioaccumulative potential | Not established. |
| potassium nitrate (7757-79-1) | |
| Bioaccumulative potential | No bioaccumulation data available. Not established. |
| urea (57-13-6) | |
| BCF fish 1 | 1 (72 h; Brachydanio rerio; Fresh water) |
| BCF other aquatic organisms 1 | 11700 (Chlorella sp.) |
| Log Pow | < -1.73 (Experimental value; EU Method A.8: Partition Coefficient) |
| Bioaccumulative potential | Bioaccumulation: not applicable. Not established. |
| Monopotassium phosphate (7778-77-0) | |
| Bioaccumulative potential | No bioaccumulation data available. |
| edta iron(iii) sodium salt (15708-41-5) | |
| Log Pow | -10.6 |

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| | |
|------------------------------------------------|-----------------------------------------------------|
| edta iron(iii) sodium salt (15708-41-5) | |
| Bioaccumulative potential | Bioaccumulation: not applicable. Not established. |
| EDTA Manganese Sodium (15375-84-5) | |
| Bioaccumulative potential | Not established. |
| Copper EDTA (14025-15-1) | |
| Bioaccumulative potential | Not established. |
| Zinc EDTA (14025-21-9) | |
| Bioaccumulative potential | No bioaccumulation data available. Not established. |

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the global warming : No known effects from this product.
GWPmix comment : No known effects from this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1486 Potassium nitrate, 5.1, III
UN-No.(DOT) : UN1486
Proper Shipping Name (DOT) : Potassium nitrate
Class (DOT) : 5.1 - Class 5.1 - Oxidizer 49 CFR 173.128
Packing group (DOT) : III - Minor Danger
Hazard labels (DOT) : 5.1 - Oxidiser



DOT Packaging Non Bulk (49 CFR 173.xxx) : 213
DOT Packaging Bulk (49 CFR 173.xxx) : 240

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| | |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DOT Special Provisions (49 CFR 172.102) | : A1 - Single packagings are not permitted on passenger aircraft. A29 - Combination packagings consisting of outer expanded plastic boxes with inner plastic bags are not authorized for transportation by aircraft. IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter. W1 - This substance in a non friable prill or granule form is not subject to the requirements of this subchapter when tested in accordance with the UN Manual of Test and Criteria (IBR, see §171.7 of this subchapter) and is found to not meet the definition or criteria for inclusion in Division 5.1. |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 152 |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 25 kg |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : 100 kg |
| DOT Vessel Stowage Location | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. |
| Emergency Response Guide (ERG) Number | : 140 |
| Other information | : No supplementary information available. |

TDG

Transport by sea

| | |
|---------------------------------------|------------------------------------------|
| Transport document description (IMDG) | : UN 1486 POTASSIUM NITRATE, 5.1, III |
| UN-No. (IMDG) | : 1486 |
| Proper Shipping Name (IMDG) | : POTASSIUM NITRATE |
| Class (IMDG) | : 5.1 - Oxidizing substances |
| Packing group (IMDG) | : III - substances presenting low danger |
| Limited quantities (IMDG) | : 5 kg |

Air transport

| | |
|---------------------------------------|---------------------------------------|
| Transport document description (IATA) | : UN 1486 Potassium nitrate, 5.1, III |
| UN-No. (IATA) | : 1486 |
| Proper Shipping Name (IATA) | : Potassium nitrate |
| Class (IATA) | : 5.1 - Oxidizing Substances |
| Packing group (IATA) | : III - Minor Danger |

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

potassium nitrate (7757-79-1)

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H-statements:

| | |
|------|----------------------------------|
| H272 | May intensify fire; oxidiser |
| H315 | Causes skin irritation |
| H320 | Causes eye irritation |
| H335 | May cause respiratory irritation |

SDS US (GHS HazCom 2012)

Disclaimer: This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION HEREIN PROVIDED. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.