S A SOUTHERN 10-30-20 BLOOM BOOSTER 5 O AG. SAFETY DATA SHEET

1. IDENTIFICATION

Date of issue: April 2015

Product Name: 10-30-20 Bloom Booster Recommended Use: Water Soluble Fertilizer

Restrictions on Use: None

Company: Southern Agricultural Insecticides, Inc

P.O. Box 218 Palmetto, FL 34220

(941) 722-3285 Chemtrec (800) 424-9300 (24 hour transportation spill response)

2. HAZARD(S) IDENTIFICATION

Classification of the mixture: Classification by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Hazard class and category: Not a hazardous substance or mixture



Signal word: Warning

Hazard Statements

May cause eye irritation May be harmful if swallowed May cause mild skin irritation May cause irritation if inhaled.

Precautionary Statements: Keep away from flammable / combustible / reducing materials. Wear protective gloves / protective clothing.. Wash hands and face thoroughly after handling.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

In case of fire: use any suitable mean for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water

Emergency Overview: The product contains no substances which at their given concentration, are considered to

be hazardous to health.

Appearance: Crystals
Physical State: Solid
Odor: Fertilizer

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients CAS-No Weight % Monoammonium Phosphate 7722-76-1 47%

Potassium Nitrate; KN0₃ 7757-79-1 41%

Sodium borate 12280-03-4 <1%

4. FIRST AID MEASURES

General information

In case of persisting adverse effects consult a physician. Never give anything by mouth to an unconscious person or a person with cramps.

In case of inhalation

Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention for any breathing difficulty.

In case of skin contact

Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

In case of ingestion

Rinse mouth and drink plenty of water. Do not induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

Important symptoms and effects, both acute and delayed

The following symptoms may occur:

In case of inhalation: Irritation to respiratory tract. Delayed lung effects after short term exposure to

thermal degradation products.

In case of skin contact: May cause redness or irritation In case of eye contact: May cause redness or irritation

In case of ingestion: Ingestion of large amounts may cause gastrointestinal disturbances.

Indication of Any Immediate Medical Attention and Special Treatment Needed:

Notes to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical, chemical foam.

Specific hazards: Dust at sufficient concentrations may form explosive mixtures with air. **Hazardous Combustion Products:** Thermal decomposition can lead to release of irritating gases and vapours.

Fundacion Data:

Explosion Data:
Sensitivity to Mechanical Impact: no data available.

Sensitivity to Static Discharge: no data available.

Special Protective Equipment for

In the event of fire, wear self-contained breathing apparatus. Keep upwind of

Firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Personal Precautions:

Wear suitable protective clothing.

Environmental Precautions:

Prevent product from entering drains.

Methods and Material for Containment and Cleanup:

Methods for containment: Vacuum or sweep up material and place in a disposal container.

Methods for Cleanup: If material is uncontaminated, collect and reuse as recommended for product.

If material is contaminated, put in appropriate container and dispose. Flush with

water.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Handling: Avoid container breakage. Do not contaminate water sources when disposing of equipment wash waters.

Keep out of lakes, streams or ponds. Wash hands thoroughly after handling. Do not eat, drink or smoke

when using this product.

Conditions for Safe Storage, Including any Incompatibilities:

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Do not contaminate water, food, or feed by storage or disposal.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: Exposure Guidelines:

IngredientsCAS-NoACGIH:OSHA:IDLH:Monoammonium phosphate7722-76-1Not ListedNot ListedNot ListedPotassium Nitrate; KNO27757-79-1Not ListedNot ListedNot Listed

Sodium Botate 2280-03-4 TWA 2 rng/m (inhal. fraction) 5 mg/m³ Not available

STEL/ceiling 6 rng/rn (inhal. fraction

Appropriate Engineering Controls:

Engineering Measures to Reduce Exposure: Use adequate ventilation to keep the airborne concentrations of this

material below the recommended exposure standard.

Individual Protection Measures, Such as Personal Protective Equipment:

Eye/Face Protection: Eye/face protection is not required, but is recommended in manufacturing situations

where contact may occur. Safety glasses with side shields or goggles.

Skin and Body Protection: No special protective clothing is required under normal workplace conditions. If skin

irritation occurs, use natural rubber gloves, durable cloth or impervious rubber gloves if

contact with product is possible.

Respiratory Protection: If airborne levels are high or product does not remain intact, use a combination of

engineering controls (e.g. ventilation) and personal protection, e.g., NIOSH/MSHA

approved respirator for dusts, mists, and fumes.

General hygiene considerations: Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties:

Physical State: Solid Crystals
Color: Light Blue
Odor: Fertilizer

Property

pH: No information available Melting Point/Freezing Point: No information available Boiling Point/Range: No information available Flash Point: No information available **Evaporation Rate:** No information available Flammability (solid, gas): No information available Flammability Limits in Air: No information available **Upper Flammability Limit:** No information available Lower Flammability Limit: No information available No information available Vapor Pressure: Vapor Density: No information available Specific Gravity: No information available

Solubility: Highly soluble

Solubility in other Solvents: No information available Partition Coefficient: No information available Autoignition Temperature: No information available Decomposition Temperature: No information available Kinematic Viscosity: No information available Dynamic Viscosity: No information available **Explosive Properties:** No information available Oxidizing Properties: Not considered an oxidizer

Other Information:

Softening Point:

Molecular Weight:

VOC Content (%):

Density:

Bulk density:

No information available
No information available
No information available
Approx. 50lb/cu ft..

10.STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions

Chemically Stable: yes.

Conditions to Avoid: Extreme heat. Contact with fuels and other organic or combustible materials. Active

metals such as aluminum, magnesium, and chlorine compounds. Contact with strong

alkalies, oxidizers, and reducing agents.

Materials to avoid: Strong acids, bases, oxidizers, and reducing agents. Avoid contact with other chemicals.

Fuels. Heavy metal salts.

Hazardous Decomposition: Contact with acids liberates very toxic gas. Toxic metal oxides may be produced.

Products:

Possibility of Hazardous Reactions: Poses little or no immediate hazard.

11. TOXICOLOGICAL INFORMATION

Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

Eye effects: Contact with eyes may cause irritation

Skin effects: May cause skin irritation in susceptible persons

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation: May cause irritation of respiratory tract.

Component Information:

There is no information for the mixture inself.

Ingredients LD50 Oral LD50 Dermal LC50 Inhalation

Monoammonium phosphate (US) - 5750 mg/kg (Rat) > 7940 mg/kg (Rabbit)

Potassium Nitrate; KN03 = 3015 mg/kg (Rat) > 2000 mg/kg > 527 mg/m^3

Sodium Borate STEL/ceiling 6 rng/rn' (inhal. fraction

Information on Toxicological Effects:

Irritant and corrosive effects

Irritation to the skin Result Method

Potassium nitrate non-irritant. Equivalent/similar to OECD guideline 404 Sodium Borate non-irritant. Equivalent/similar to OECD guideline 404

Assessment / classification: Based on available data, the classification criteria are not met.

Genetic effects

The product does not contain ingredients classified as germ cell mutagens.

Bacterial (Ames Test) Chromosomal aberrations Mutation in mammalian cell:

Potassium nitrate negative negative negative negative negative negative

Assessment / classification: Based on available data, the classification criteria are not met.

Reproductive toxicity

Adverse effects on sexual function and fertility/developmental toxicity

OECD guideline 422.

Potassium nitrate No adverse effects on fertility/development (NOAEL >1500 mg/kg bw). Sodium Borate NOAEL (male rats): 17.5 mg B/kg bw/day (Multigeneration study)

fertility Has been shown to adversely affect male reproduction in laboratory animals, however, male

reproductive effects attributable to boron have not been demonstrated in studies of highly exposed workers.

Developmental toxicity Benchmark dose (BMDLOS): 10.3 mg B/kg bw/day

Developmental effects have been observed in laboratory animals. The critical effect is considered to be decreased fetal body weight in rats. There is no

evidence of developmental effects in humans attributable to soluble boron in studies of

populations with high exposures to soluble boron.

Assessment / classification: Based on available data for ingredients of the mixture, this product does not contain sufficient amounts to be considered hazardous.

Specific target organ toxicity (single exposure)

The product does not contain relevant ingredients classified as Target Organ Toxicant after single exposure.

Potassium nitrate

No relevant effect have been observed after single exposure to potassium nitrate.

No relevant effect have been observed after single exposure to the substance.

No reliable study supports the designation of boric acid as a respiratory irritant.

Assessment / classification: Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure)

Organs affected: Effects Guideline

Potassium nitrate None No effects (NOAEL >IS00 mg/kg bw) OECO 422

Sodium Borate Testes NOAEL(chronic rat): 17.5 mg B/kg bw/day

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity effects: May be toxic to aquatic organisms.

Persistence and degradability: Not applicable, since inorganic substance.

Mobility: Soluble in water

Other adverse effects: Substances, which contribute to eutrophication: Phosphates.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with waterways, drains, and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated Packaging: Do not reuse container. Disposal should be in accordance with applicable regional, national

and local laws and

regulations.

14. TRANSPORT INFORMATION

DOT (Land): Not DOT regulated Not regulated Not regulated Not regulated Not regulated

15. REGULATORY INFORMATION

Federal Regulations:

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories:

Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act):

This product does not contain any Substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA:

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations: Nothing found California Proposition 65: Nothing found

EPA Pesticide Registration Number: not applicable

16. OTHER INFORMATION

NFPA: Health: 1 Flammability: 0 Reactivity: 1

HMIS: Health: 1 Flammability: 0 Physical Hazard: Not known

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their on investigations to determine the suitability of the information for their particular purposes. In no event shall Southern Agricultural Insecticides, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Southern Agricultural Insecticides, Inc has been advised of the possibility of such damages.

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