

# **SAFETY DATA SHEET Regulate Plus**

1. Identification

Other Identification:

Product name Regulate Plus Product code REGLIQ

Chemical Family: Aqueous organic salt solution

Formula: Not applicable-blend

Recommended use

Manufacturer & Distributor information

Corporate Office

Telephone Website E-mail Contact person

**Emergency phone number** 

Call CHEMTREC Day or Night Within USA and Canada

Other Countries

Turf & Horticulture -Surfactant

Plant Food Company, Inc.

38 Hightstown-Cranbury Station Road Cranbury, NJ 08512 United States Information: 1-609-448-0935 www.plantfoodco.com pfc@plantfoodco.com

**SDS-Regulatory Department** 

1-800-424-9300 CCN725928

or +1 703-527-3887 (collect calls accepted)

1-609-448-0935

2. Hazard(s) identification

Physical hazards Health hazards

Not classified. Acute toxicity, oral Serious eye damage/eye irritation

Specific target organ toxicity, single exposure

Hazardous to the aquatic environment, acute hazard

Not classified.



Signal word Hazard statement

**Environmental hazards** 

OSHA defined hazards

Label elements

Precautionary statement

Prevention

Response

Hazard(s) not otherwise classified (HNOC)

Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation.

Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye/face protection.

Category 4

irritation Category 2

Category 2A

Category 3 respiratory tract

If swallowed: Call a poison center/doctor if you feel unwell. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. If eye irritation persists: Get medical advice/attention. None known.

3. Composition/information on ingredients

Mixture

**Chemical Name Synonym Common Name CAS Number EINECS No.** Proprietary Surfactant Propylene Oxide 75-56-9 Ethylene Oxide 75-21-8 Ethanol denatured 64-17-5 200-578-6 Ethanol Salicylic Acid 200-712-3 Salicylic Acid 69-72-7



Skin contact

Eye contact

treatment needed

General information

Ingestion

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4. First-aid measures

Inhalation Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has

ceased, clear airway and start CPR. Obtain medical attention.

Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Continue

rinsing. Obtain medical attention if irritation occurs.

Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Remove contact lenses, if

present and easy to do. If eye irritation persists: Get medical advice/attention.

Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. If victim is

conscious, give two to four glasses of water and induce vomting by touching finger to back of throat. Obtain

medical attention

Irritation of eves and mucous membranes.

Provide general supportive measures and treat symptomatically. Keep victim warm. In case of shortness of

breath, give oxygen. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

5. Fire-fighting measures

Unsuitable extinguishing media

Flammable Properties: NFPA: Health - 1 Flammability - 0 Reactivity - 0 Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed. Heating (flames) of closed or sealed containers may

cause violent rupture of container due to thermal expansion of compressed gases. Heating causes release of ammonia vapors. Vapors are irritating to eyes, skin and respiratory tract. Heating to dryness may cause the

release of ammonia, ammonium sulfate, sulfur and oxides of sulfur (respiratory hazard).

Special protective equipment and precautions for Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from firefighters

fire area if you can do so without risk. Keep containers/storage vessels in fire area cooled with water spray.

Fire-fighting equipment/instructions

Specific methods Move container from fire area if it can be done without risk.

General fire hazards Heating this product will evolve ammonia

6. Accidental release measures

Personal precautions, protective equipment and

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special

emergency procedures

Keep people away from any upwind of spill/leak. Keep out of low areas. Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For

personal protection, see section 8 of the SDS.

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further **Environmental precautions** 

leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up Stop the flow of material, if this is without risk.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Observe good industrial hygiene practices. Wash hands

thoroughly after handling. Avoid release to the environment. Do not empty into drains.

Store locked up. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from Conditions for safe storage, including any incompatibilities

incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s). Biological limit values

No biological exposure limits noted for ingredient(s).

Provide evewash station.

Individual protection measures, such as personal

protective equipment

Eve/face protection

Hand protection

Skin protection

Appropriate engineering controls

Other

Respiratory protection Thermal hazards

General hygiene considerations

Wear eye/face protection. Wear safety glasses with side shields (or goggles).

For prolonged or repeated skin contact use suitable protective gloves.

Wear suitable protective clothing. Wash contaminated clothing prior to reuse.

In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate thermal protective clothing, when necessary.

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.



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# 9. Physical and chemical properties

Light blue liquid Appearance (physical state, color, etc)

Odor Alcohol Not available. Odor threshold

3.6

32 °F (0° C) (Typical)) Melting point/freezing point Initial boiling point and boiling range 222°F (106°C) Not available.

Flash point **Evaporation rate** Not determined Flammability (solid, gas) Not applicable Upper/lower flammability or explosive limits Not applicable Vapor pressure 6.661 hPa @ 20° C (68 F°)

Not available. Vapor density Relative density 8.6 lbs/gal (1.03 kg/L)

Solubility Complete Solubility (water) 100%

Partition coefficient (n-octanol/water) Not available. Not available. Auto-ignition temperature Data not available Decomposition temperature Viscosity 1-10 CPS @ 21°C

Other information Shelf life > 2 years

10. Stability and reactivity

Reactivity Avoid interaction with heat (flames), oxidizers, acids or alkalis (see details below in this section). Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions Strong oxidizers such as nitrates, nitrites or chlorates can cause explosive mixtures if heated to dryness

Conditions to avoid Temperatures above 120°F (49°C) and below 32°F (0°C).

Hazardous decomposition products Heating this product will evolve ammonia. Heating to dryness will produce ammonia, ammonium sulfate, sulfur

and oxides of sulfur.

11. Toxicological information

Information on likely routes of exposure Oral

Harmful if swallowed.

Inhalation May cause irritation to the respiratory system. May cause damage to organs by inhalation.

Skin contact Not determined Eye contact Not determined

Not listed in NTP, IARC or by OSHA. Chronic/Carcinogenicity:

Teratology: Data not available. Reproduction: Data not available. Mutagenicity: Data not available.



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12. Ecological information

Bioaccumulative potential

Not determined

Persistence and degradability No data is available on the degradability of this product.

This product is not bioaccumulative.

Mobility in soil Not determined Other adverse effects Not determined

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be Disposal instructions

disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds,

waterways or ditches with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and

its container must be disposed of in a safe manner (see: Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may

retain product residue, follow label warnings even after container is emptied.

14. Transport information

Contaminated packaging

DOT Not regulated as dangerous goods. IATA Not regulated as dangerous goods. **IMDG** Not regulated as dangerous goods.

15. Regulatory information

US federal regulations This product meets the criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification Not regulated.

(40 CFR 707, Subpt. D)

CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

SARA 304 Emergency release notification Not regulated.

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No

Reactivity Hazard - No Not listed.

SARA 302 Extremely hazardous substance

Other federal regulations

**OSHA Specifically Regulated Substances** Not listed

(29 CFR 1910.1001-1050)

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants Not regulated.

(HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release

Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

16. Other information, including date of preparation or last revision

Issue date 6/1/2015 Revision date 3/14/2018 Version #

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> merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that the products, or information may be used without infringing the intellectual property rights of others. In no case shall the information provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the information furnished by our company hereunder is given gratis and we assume no obligation or liability for the information given

or results obtained, all such being given and accepted at your risk.

Composition / Information on Ingredients: Ingredients Revision Information

Physical & Chemical Properties: Multiple Properties