



Safety Data Sheet

Issue Date: 11-19-2015

Revision Date: N/A

Version: 1

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier on label: Solace

EPA Registration No.: 66222-212-48234

Use: Plant Growth Regulator

Manufacturer:

Regal Chemical Company

600 Branch Dr.

Alpharetta, GA 30009

Manufacturer Phone: 1(770) 475-4837

Emergency Phone: ChemTrec 1(800) 262-8200

2. Hazardous Identification

Classifications:	Reproductive Toxicity:	Category 2
	Eye Damage/Irritation:	Category 2A
	Flammable Liquid:	Category 4

Signal Word (OSHA): Warning

Hazard Statements: Combustible liquid
Causes serious eye irritation
Suspected of damaging fertility or the unborn child

Hazard Symbols:



Precautionary Statements: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
If exposed or concerned: Get medical advice/attention.
Store locked up.
Keep away from heat, sparks, open flames, hot surfaces. No smoking.
Wear protective gloves, protective clothing, eye protection.
In case of fire: Use dry chemical, foam or CO2 for extinction.
Store in a well-ventilated place. Keep cool.
Wash hands and face thoroughly after handling.
If in eyes: 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.



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Dispose of contents and container in accordance with local regulations.

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

Other Hazard Statements: Combustible liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion

3. Composition/Information on Ingredients

Common Name	CAS Number	Concentration	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Trinexapac-Ethyl	95266-40-3	11.3%	NE	NE	NA	NA
Other ingredients		88.7%	NA	NA	NA	NA

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. First Aid Measures

Have the product container, label or Safety Data Sheet with you when calling Chemtrec (800-262-8200), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-262-8200 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Chemtrec (800-262-8200), a poison control center or doctor for treatment advice.

Skin Contact: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Chemtrec (800-262-8200), a poison control center or doctor for treatment advice.

Inhalation: If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call Chemtrec (800-262-8200), a poison control center or doctor for further treatment advice.

Most important symptoms/effects:

Eye irritation

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically



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5. Fire-Fighting Measures

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO₂ extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

Combustible liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back.

During

a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Other Hazard Statements:

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. Handling and Storage

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Precautions to be taken in storage: Do not store below 0°F. If crystals do form, store above 70°F, shaking periodically until crystals are dissolved.

Storage Temperature: Store above 0oF (-18°C).



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8. Exposure Controls/Personal Protection

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

SKIN PROTECTION: Long-sleeved shirt and long pants. Shoes plus socks.

HAND PROTECTION: Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber.

RESPIRATOR REQUIREMENTS: In areas of inadequate ventilation a NIOSH-approved respirator or a self-contained breathing apparatus may be required.

VENTILATION:

Whenever possible, adequate ventilation should be used to minimize the need for personal protective equipment.

ADDITIONAL PROTECTIVE MEASURES: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Refer to product label.

9. Physical and Chemical Properties

APPEARANCE: Clear yellow liquid

Odor: None

pH: 3.22±0.22 @25.1°C

FLASH POINT: 94.4°C (202°F)

DENSITY: 0.9923 g/ml (25.2°C)

VISCOSITY: 43.674 mm²/s @19.9°C; 20.030 mm²/s @40.1°C

VAPOR PRESSURE: Not available

WATER SOLUBILITY: Not available

PARTITION COEFFICIENT: Not available



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10. Stability and Reactivity

STABILITY: Stable under normal use and storage conditions.

CONDITIONS TO AVOID: Keep away from heat, open flames or other ignition sources.

MATERIALS TO AVOID: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield irritating and toxic fumes.

HAZARDOUS POLYMERIZATION: Will not occur.

11. Toxicological Information

ACUTE TOXICITY/IRRITATION STUDIES (Finished Product):

Acute Oral LD ₅₀ (Rat):	> 3,129 mg/kg
Acute Dermal LD ₅₀ (Rat):	>5,000mg/kg
Acute Inhalation LC ₅₀ (Rat):	> 2.12mg/L (4 hrs.)
Eye Irritation:	Minimally irritating
Dermal Irritation:	Non-irritating
Dermal Sensitization:	Not a skin sensitizer

SYMPTOMS OF OVEREXPOSURE:

Symptoms of overexposure are headaches, dizziness, numbness, nausea, lack of coordination or other central nervous system effects.

REPRODUCTIVE/DEVELOPMENTAL EFFECTS:

Trinexapac-Ethyl Technical: None observed.

CHRONIC/SUBCHRONIC EFFECTS:

Trinexapac-Ethyl Technical: Liver, kidney and brain (dogs) effects at high doses (>5,000 ppm).

CARCINOGENICITY:

Trinexapac-Ethyl Technical: Slight increase in stomach tumors in male mice at high doses (2,000 ppm). Slight increase in forestomach tumors in male rats at high doses (20,000 mg/kg/day). The U.S. EPA has classified trinexapac-ethyl as "not likely to be carcinogenic to humans."

TARGET ORGANS: Trinexapac-Ethyl Technical: Liver, kidney, brain

12. Ecological Information

ENVIRONMENTAL HAZARDS:

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favor drift from treated areas.

The following information is for the active ingredient (Trinexapac-ethyl):

Acute Toxicity (LC50) to Aquatic Species:

Rainbow Trout: 68 mg/L



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Bluegill: > 130.1 mg/L

Daphnia magna: > 142.5 mg/L

Active Ingredient Acute Toxicity (LD50) to birds:

Mallard Duck: >2,000 mg/Kg

Bobwhite Quail: >2,250 mg/Kg

13. Disposal Considerations

Do not contaminate water, food or feed by disposal.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

14. Transport Information

DOT Classification: Not regulated

International Transportation:

IMO (Vessel): Not regulated

IATA (Air): Not regulated

15. Regulatory Information

FIFRA INFORMATION:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information for safety data sheet, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

CAUTION: Harmful if swallowed. Avoid contact with eyes, skin or clothing.

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.

Section 311/312: Acute health hazard (immediate)

Section 313: 2-butoxy-ethanol (CAS No. 111-76-2)

CERCLA RQ: Not applicable

RCRA CLASSIFICATION: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.

CA PROPOSITION 65: This product does not contain any substances known to the State of California to cause cancer or reproductive harm.

STATE RIGHT-TO-KNOW: 2-butoxy-ethanol (CAS No. 111-76-2): NJ, PA, MA



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16. Other Information

Hazard Ratings:

NFPA:

Health: 1

Flammability: 1

Reactivity: 1

0 – Minimal

1 – Slight

2 – Moderate

3 – High

4 – Severe

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