



Safety Data Sheet

Section 1: Identification

Product identifier

Product Name

- **Apex**

Synonyms

- 01130; Apex - Mushrooms; EPA Reg. No.: 2724-427; RF-9811 EC

Product Description

- Clear, light amber liquid.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

- Insect growth regulator

Restrictions on use

- KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with eyes, skin or clothing. Avoid release to the environment. Keep away from heat, sparks and flames. Use in well ventilated area.

Details of the supplier of the safety data sheet

Manufacturer

- Wellmark International
1501 E. Woodfield Road 200W
Schaumburg, IL 60173
United States

www.starbarproducts.com

Emergency telephone number

Manufacturer

- 1-800-248-7763

Manufacturer (Transportation)

- 1-800-424-9300 - CHEMTREC

Manufacturer (Transportation)

- 1-703-527-3887 - CHEMTREC Outside US Collect Calls accepted

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

- Acute Toxicity Inhalation 4
Aspiration 1
Flammable Liquids 4
Skin Irritation 2
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Eye Irritation 2A

Label elements

OSHA HCS 2012

DANGER

- Hazard statements** • Causes skin irritation
 Combustible liquid
 Harmful if inhaled
 May be fatal if swallowed and enters airways
 May cause drowsiness or dizziness
 Causes serious eye irritation

Precautionary statements

- Prevention** • Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
 Use only outdoors or in a well-ventilated area.
 Wash thoroughly after handling.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Avoid breathing dust, fume, gas, mist, vapors and/or spray.
 Wear protective gloves.

- Response** • Call a POISON CENTER or doctor/physician if you feel unwell.
 Do NOT induce vomiting.
 If eye irritation persists: Get medical advice/attention.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If skin irritation occurs: Get medical advice/attention.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 Specific treatment, see supplemental first aid information.
 Take off contaminated clothing and wash before reuse.
 IF ON SKIN: Wash with plenty of soap and water.
 In case of fire: Use appropriate media for extinction.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor if you feel unwell.

Storage/Disposal

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
 Store in a well-ventilated place. Keep container tightly closed.
 Store locked up.
 Keep cool.

Other hazards**OSHA HCS 2012**

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

Composition		
Chemical Name	Identifiers	%
S-Methoprene	CAS:65733-16-6	33.6%
Distillates (petroleum), hydrotreated light	CAS:64742-47-8	48.26%
Butylated Hydroxytolene	CAS:128-37-0	1%
Other ingredients	NDA	17.14%

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor if you feel unwell.

Skin

- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eye

- 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/attention.

Ingestion

- IF SWALLOWED: Immediately call a poison control center or doctor. Aspiration hazard - if swallowed, do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information. Aspiration hazard; inhalation hazard; skin irritation; eye irritation; narcotic effects.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- Treat symptomatically and supportively. May present an aspiration hazard.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media

- LARGE FIRE: Water spray, fog or regular foam.
SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media

- Avoid heavy hose streams.
May ignite combustibles (wood, paper, oil, clothing, etc.)

Firefighting Procedures

- Do not allow fire fighting water to escape into waterways or sewers. Ventilate closed spaces before entering. Eliminate ignition sources.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Combustible liquid.
May be ignited by heat, sparks or flames.

Hazardous Combustion Products

- Carbon dioxide and possibly carbon monoxide.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Fire fighting water contaminated with this material must be contained and prevented from being discharged into any waterway, sewer or drain.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation to remove vapors, fumes, dust etc. Use appropriate Personal Protective Equipment (PPE)

Emergency Procedures

- Avoid release into the environment. Keep unauthorized personnel away. Ventilate closed spaces before entering. Eliminate all ignition sources.

Environmental precautions

- Contain and prevent from release into any waterway, sewer or drain.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Keep away from fire, sparks and heated surfaces. Cover liquid spill with sand, earth or other non-combustible absorbent material. Do not flush to sewer or allow to enter waterways.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Use good safety and industrial hygiene practices. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Keep away from fire - No Smoking. Avoid breathing fumes. Avoid contact with skin or eyes. Avoid release to the environment. Keep out of the reach of children. Wear appropriate personal protective equipment, avoid direct contact.

Conditions for safe storage, including any incompatibilities

Storage

- Keep out of reach of children. Keep away from fire. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep at a temperature not exceeding 120 F. Store away from strong oxidizing agents. Keep in a cool place.

Incompatible Materials or Ignition Sources

- Heat. Oxidizing agents.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines

- No data available.

Exposure Limits/Guidelines			
	Result	ACGIH	NIOSH
Butylated Hydroxytolene	TWAs	2 mg/m ³ TWA (inhalable fraction and vapor)	10 mg/m ³ TWA

(128-37-0)

Exposure controls

Engineering

Measures/Controls

- Use adequate ventilation to remove vapors (fumes, dust etc)

Personal Protective Equipment

Pictograms



Respiratory

- No data available.

Eye/Face

- Wear chemical splash safety goggles.

Hands

- Wear appropriate gloves.

Skin/Body

- If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact.

Environmental Exposure Controls

- Refer to Section 13 - Disposal Considerations.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Clear light amber liquid.
Color	Light amber.	Odor	Chemical
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	6.69 @ 25 °C(77 °F)
Specific Gravity/Relative Density	= 0.858 Water=1	Bulk Density	0.858 g/cm ³
Water Solubility	Not soluble	Viscosity	0.012 Pascal-sec (Pa.s, Pas)
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	> 88 °C(> 190.4 °F)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- Non-reactive

Chemical stability

- Stable

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Keep away from fire. Excessive heat >110°F Strong oxidizers.

Incompatible materials

- Store away from oxidizers.

Hazardous decomposition products

- Carbon dioxide and possibly carbon monoxide.

Section 11 - Toxicological Information

Information on toxicological effects

	CAS	
Apex	NDA	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5100 mg/kg; Inhalation-Rat LC50 • >2.009 mg/L 4 Hour(s); Skin-Rabbit LD50 • >2100 mg/kg; Irritation: Eye-Rabbit • Moderate irritation; Skin-Rabbit • Moderate irritation

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation 4; Acute Toxicity - Oral - Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2A
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Aspiration 1
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Not classified - data lacking
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
STOT-RE	OSHA HCS 2012 • Classification criteria not met

Potential Health Effects

Inhalation

- Acute (Immediate)** • May be harmful if inhaled. May cause drowsiness and dizziness.
- Chronic (Delayed)** • No data available.

Skin

- Acute (Immediate)** • Causes skin irritation.
- Chronic (Delayed)** • No data available.

Eye

- Acute (Immediate)** • May cause mild irritation.
- Chronic (Delayed)** • No data available.

Ingestion

- Acute (Immediate)** • Aspiration Hazard. May be harmful if swallowed.

Chronic (Delayed) • No data available.

Section 12 - Ecological Information

Toxicity

Components		
S-Methoprene (33.6%)	65733-16-6	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow Trout</i> 0.76 mg/L [Acute] 96 Hour(s) LC50 <i>Bluegill</i> >0.37 mg/L [Acute] NOEC <i>Fathead Minnow</i> 0.048 mg/L [Chronic] Aquatic Toxicity-Crustacea: NOEC <i>Mysid Shrimp</i> 0.014 mg/L [Chronic] 48 Hour(s) LC50 <i>Daphnia</i> 0.36 mg/L [Acute]
Distillates (petroleum), hydrotreated light (48.26%)	64742-47-8	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow Trout</i> 2.9 mg/L [Acute] 96 Hour(s) LC50 <i>Lepomis macrochirus</i> 2.2 mg/L [Acute]

Persistence and degradability

- No data available.

Bioaccumulative potential

- No data available.

Mobility in Soil

- No data available.

Other adverse effects

Ecological Fate • No data available.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not empty into drains; dispose of this material and its container in a safe way.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Nonrefillable container. Do not reuse or refill this container. See product label for container disposal instructions.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable
IMO/IMDG	UN 3082	Packaging 5 L or greater: Environmentally Hazardous Substance, Liquid, n.o.s. (S-Methoprene)	9	III	Marine Pollutant
IATA/ICAO	UN 3082	Packaging 5 L or greater: Environmentally Hazardous Substance, Liquid, n.o.s. (S-Methoprene)	9	III	Acute Aquatic Toxicity

- Special precautions for user** • None specified.
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • No data available
- Other information**
- IMO/IMDG** • No data available
- IATA/ICAO** • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

- SARA Hazard Classifications** • Acute

FIFRA – Pesticide Labeling

This material is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION

- Precautionary Statements** • KEEP OUT OF THE REACH OF CHILDREN.

Hazards to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice. If on skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. If swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give ANY liquid to the person. Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-248-7763 for emergency medical treatment information. **NOTE TO PHYSICIAN:** Contains petroleum distillate - vomiting may cause aspiration pneumonia.

Inventory		
Component	CAS	TSCA
Butylated Hydroxytolene	128-37-0	Yes
Distillates (petroleum), hydrotreated light	64742-47-8	Yes
S-Methoprene	65733-16-6	No

Section 16 - Other Information

Revision Summary

Revision Date	MSDS Number	Changes
20/September/2016		• Section 14 changed. Updated shipping

Revision Date • 20/September/2016

Last Revision Date • 27/April/2015

Preparation Date • 06/November/2014

Disclaimer/Statement of Liability

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