



Material Safety Data Sheet

OFF-SHOOT-T

Version: 1.2

Revision Date: 02/08/2012

Print Date: 03/01/2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *OFF-SHOOT-T*

Product Use Description: Plant growth regulator

Company: Chemtura Corporation
199 Benson Road
Middlebury, CT
06749
United States of America

Telephone: (US) +1 866-430-2775

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300
:
Chemtura Corporation Emergency Response: CHEMTURA : 800-292-5898

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by: Product Safety Department
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02/08/2012

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SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER!

Form: liquid Colour: light yellow Odour: fatty odour

Hazard Summary :
Risk of serious damage to eyes.
Irritating to respiratory system and skin.
Irritating to mucous membranes
May cause allergic skin reaction.
Prolonged and/or repeated exposure may cause the following effects:
Lung damage

Potential Health Effects

Primary Routes of Entry : Skin contact
Eye contact
Inhalation

Aggravated Medical Condition : Respiratory disorders
Skin disorders



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- Target Organs : Eyes
Respiratory system
Skin
- Inhalation : Irritating to respiratory system.
- Skin : Irritating to skin.
May cause allergic skin reaction.
- Eyes : Risk of serious damage to eyes.
May cause burns or external ulcers.
- Ingestion : Ingestion may cause gastrointestinal irritation, nausea,
vomiting and diarrhoea.
- Chronic Exposure : May cause respiratory system effects.
Lung damage
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Environmental Effects

- Environmental Effects : Harmful to aquatic organisms.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component / CAS-No.	Weight percent
decan-1-ol 112-30-1	48.2 %
octan-1-ol 111-87-5	36.2 %
Sorbitan monooleate, ethoxylated 9005-65-6	15.3 %
related compounds (dodecanol – C12)	0.3 %

SECTION 4. FIRST AID MEASURES

First aid procedures

- Inhalation : If breathed in, move person into fresh air.
Give oxygen or artificial respiration if needed.
In case of bluish discoloration (lips, ear lobes, fingernails), give oxygen as quickly as possible.
Obtain medical attention.
- Skin contact : If on clothes, remove clothes.
Wash off immediately with plenty of water for at least 15 minutes.



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- If skin irritation occurs, seek medical advice/attention.
Wash contaminated clothing before re-use.
Destroy contaminated shoes.
- Eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If symptoms persist, call a physician.
- Ingestion : Do NOT induce vomiting.
Give small amounts of water to drink.
Call a physician or poison control centre immediately.
Never give anything by mouth to an unconscious person.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

Flash point : > 212 °F (100 °C)

Ignition temperature : 525 °F (274 °C)

Fire fighting

Suitable extinguishing media : Extinguishing media - large fires
Alcohol-resistant foam
Small fires:
Carbon dioxide (CO₂)
Dry chemical
Water spray

Unsuitable extinguishing media : Water spray jet

Further information : Fight fire with normal precautions from a reasonable distance.
Keep away from fire, sparks and heated surfaces.
Use water spray to cool unopened containers.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

Protective equipment and precautions for firefighters

Special protective equipment for firefighters : Body covering protective clothing, full "turn-out" gear.
Self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Evacuate personnel to safe areas.
Wear suitable protective clothing, gloves and eye/face protection.
Avoid contact with skin and eyes.
Ventilate the area.

Environmental precautions : Toxic to aquatic life.
Do not allow uncontrolled discharge of product into the environment.
Do not flush into surface water or sanitary sewer system.



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- Methods for containment /
Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Shovel into suitable container for disposal.
Large spills should be collected mechanically (remove by pumping) for disposal.
Ventilate the area.
- Additional advice : Keep in properly labelled containers.
Dispose of rinse water as waste water.

SECTION 7. HANDLING AND STORAGE

Handling

- Handling procedures : Handle and open container with care.
Protect from contamination.
Use only in well-ventilated areas.
In case of insufficient ventilation, wear suitable respiratory equipment.
Avoid inhalation, ingestion and contact with skin and eyes.
Wear suitable protective clothing, gloves and eye/face protection.
Wash thoroughly after handling.
Keep container closed when not in use.

Storage

- Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep only in the original container.
- Other data : Stable at normal ambient temperature and pressure.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Contains no substances with occupational exposure limit values.

Engineering measures

- Engineering measures : Use mechanical ventilation for general area control.
Ensure that extracted air cannot be returned to the workplace through the ventilation system.
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

- Eye protection : Tightly fitting safety goggles
- Hand protection : Chemical resistant protective gloves
- Skin and body protection : Long sleeved clothing
Remove and wash contaminated clothing before re-use.
Discard contaminated shoes.



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- To protect against splashes from pouring:
Rubber or plastic boots
Rubber or plastic apron
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Wear suitable gloves and eye/face protection.
Avoid contact with skin, eyes and clothing.
Do not inhale aerosol.
Ensure adequate ventilation, especially in confined areas.
When using do not eat, drink or smoke.
Wash thoroughly after handling.
Keep working clothes separately.
Remove and wash contaminated clothing before re-use.
Contaminated work clothing should not be allowed out of the workplace.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Form : liquid
Colour : light yellow
Odour : fatty odour

Safety data

- Flash point : > 212 °F (100 °C)
Ignition temperature : 525 °F (274 °C)
pH : 7.9
 : 660 °F (349 °C)
Density : 0.85 g/cm³
Partition coefficient: n-octanol/water : log Pow: 2.3 - 4.2

SECTION 10. STABILITY AND REACTIVITY

- Materials to avoid : Remarks: None known.
- Hazardous decomposition : Note: Carbon monoxide, carbon dioxide and unburned hydrocarbons



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products

(smoke).

Hazardous reactions

: Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

: LD50: 28,300 mg/kg
Species: rat

Acute inhalation toxicity

: LC50: 31 mg/l
Exposure time: 4 h
Species: rat

Acute dermal toxicity

: LD50: 1,750 - 2,000 mg/kg
Species: rabbit

Skin irritation

: Species: rabbit
Result: Moderate skin irritation
Classification: Irritating to skin.

Eye irritation

: Species: rabbit
Result: Corrosive
Classification: Risk of serious damage to eyes.

Sensitisation

: Remarks: This product is not expected to be a skin sensitizer.

Aspiration toxicity
octan-1-ol

: The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Toxicology Assessment

CMR effects

: Carcinogenicity:
negative
Mutagenicity:
negative
Teratogenicity:
negative
Reproductive toxicity:
negative

12. ECOLOGICAL INFORMATION

Ecotoxicity effects



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Toxicity to fish : LC50: 6.5 - 9.9 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)
: LC50: 9.9 mg/l
Exposure time: 96 h
Species: Lepomis macrochirus (Bluegill)

Toxicity to daphnia and other aquatic invertebrates : LC50: 8.2 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Toxicity to algae octan-1-ol : EC50: 14 mg/l
Exposure time: 48 h
Species: Green algae (Scenedesmus subspicatus)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) octan-1-ol : NOEC: 1.6 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

Elimination information (persistence and degradability)

Biodegradability : Remarks:
Readily biodegradable.

Further information on ecology

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of waste material in compliance with all federal, state, and local regulations.
Pesticide wastes are toxic.
Do not contaminate ponds, waterways or ditches with chemical or used container.

SECTION 14. TRANSPORT INFORMATION

DOT

Not dangerous goods

TDG

Not dangerous goods

IATA

Not dangerous goods



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IMDG

Not dangerous goods

RID

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

California Prop. 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

REACH Not in compliance with the inventory

US.TSCA All substances in this product are exempt from TSCA as this product is registered under FIFRA (Federal Insecticide Fungicide Rodenticide Act).

DSL
Note: This product is registered under the Pest Control Products Act and is therefore exempt from WHMIS supplier labeling and MSDS requirements. Please read entire MSDS and product label for safety precautions.

AICS Not in compliance with the inventory

NZIoC Not in compliance with the inventory

ENCS Not in compliance with the inventory



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KECI Not in compliance with the inventory

PICCS Not in compliance with the inventory

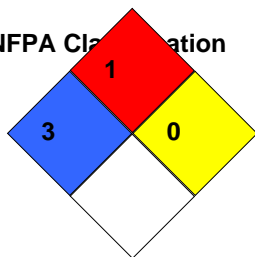
IECSC Not in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health hazard: 3
Chronic Health Hazard: *
Flammability: 1
Reactivity: 0

NFPA Classification



: Health hazard: 3
Fire Hazard: 1
Reactivity Hazard: 0

Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 555 004 8763

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.