



Latest revision date: 01/19/2016

Version: 1.0

United States  
**Safety Data Sheet**

The Ortho Group  
P.O. Box 190  
Marysville, Ohio 43040  
United States

24 h. EMERGENCY TELEPHONE NUMBER  
CHEMTREC (U.S.) 1-800-424-9300  
CHEMTREC (International) 1-703-527-3887  
Non-Emergency Calls  
1-937-644-0011

**TANGLEFOOT TREE PRUNING SEALER 1****Section 1. Identification**

**GHS product identifier** : TANGLEFOOT TREE PRUNING SEALER 1  
**Product type** : Registration Not Required  
**SDS #** : 320000009118

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

Use only in accordance with label directions.

**Section 2. Hazards identification**

This product is regulated by the Consumer Product Safety Commission (CPSC) for label precautionary text see Section 15.

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
**Classification of the substance or mixture** : SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A  
GERM CELL MUTAGENICITY - Category 1B  
CARCINOGENICITY - Category 1B

**GHS label elements**

**Hazard pictograms**



**Signal word**

: Danger

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**Hazard statements** : Causes serious eye irritation.  
Causes skin irritation.  
May cause genetic defects.  
May cause cancer.

### **Precautionary statements**

**General** : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling.

**Response** : IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. 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 attention.

**Storage** : Store locked up.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements** : None known.

**Hazards not otherwise classified** : None known.

## **Section 3. Composition/information on ingredients**

**Substance/mixture** : Mixture

**Chemical name** : Not available.

**Other means of identification** : Not available.

<b>Ingredient name</b>	<b>%</b>	<b>CAS number</b>
Petroleum gases, liquefied, sweetened	>= 10 - < 25	68476-86-8
Benzene, dimethyl-	>= 10 - < 25	1330-20-7
Benzene, ethyl-	>= 10 - < 25	100-41-4
Acetylene black	>= 1 - < 3	1333-86-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

## **Section 4. First aid measures**

### **Description of necessary first aid measures**

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- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention. Never give anything by mouth to an unconscious person.

#### **Most important symptoms/effects, acute and delayed**

##### **Potential acute health effects**

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation.
- Ingestion** : No known significant effects or critical hazards.

##### **Over-exposure signs/symptoms**

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

#### **Indication of immediate medical attention and special treatment needed, if necessary**

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without

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suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	:	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	:	None known.
<b>Specific hazards arising from the chemical</b>	:	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide
<b>Special protective actions for fire-fighters</b>	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
<b>Environmental precautions</b>	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

<b>Spill</b>	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses,
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basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Occupational exposure limits

Ingredient name	Exposure limits
Petroleum gases, liquefied, sweetened	None.
Benzene, dimethyl-	None.

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Benzene, ethyl-	<p><b>OSHA PEL 1989 (1989-03-01)</b>  <b>TWA</b> 435 mg/m3, 100 ppm  <b>STEL</b> 545 mg/m3, 125 ppm  <b>OSHA PEL (1993-06-30)</b>  <b>TWA</b> 435 mg/m3, 100 ppm  <b>NIOSH REL (1994-06-01)</b>  <b>TWA</b> 435 mg/m3, 100 ppm  <b>STEL</b> 545 mg/m3, 125 ppm  <b>ACGIH TLV (2010-12-06)</b>  <b>TWA</b> , 20 ppm  Notes: Biological exposure index or indices recommended for substance listed</p>
Acetylene black	<p><b>OSHA PEL 1989 (1989-03-01)</b>  <b>TWA</b> 3.5 mg/m3  <b>OSHA PEL (1993-06-30)</b>  <b>TWA</b> 3.5 mg/m3  <b>NIOSH REL (1994-06-01)</b>  <b>TWA</b> 3.5 mg/m3  Notes: See Appendix A - NIOSH Potential Occupational Carcinogen  See Appendix C - Supplemental Exposure Limits  <b>TWA</b>  Notes: Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs) See Appendix A - NIOSH Potential Occupational Carcinogen  See Appendix C - Supplemental Exposure Limits  <b>ACGIH TLV (2010-12-06)</b>  <b>TWA</b> 3 mg/m3 Form: Inhalable fraction</p>

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

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- showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : liquid [Viscous liquid to paste]  
**Color** : Amber to green-brown
- Odor** : Solvent.  
**Odor threshold** : Not available.  
**pH** : 6.4
- Melting point** : Not available.  
**Boiling point** : 94 °C (201.20 °F)
- Flash point** : > 100 °C (212.00 °F)
- Evaporation rate** : Not available.  
**Flammability (solid, gas)** : Not available.

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<b>Lower and upper explosive (flammable) limits</b>	:	<b>Lower:</b> Not available. <b>Upper:</b> Not available.
<b>Vapor pressure</b>	:	Not available.
<b>Vapor density</b>	:	Not available.
<b>Relative density</b>	:	Not available.
<b>Solubility</b>	:	Not available.
<b>Partition coefficient: n-octanol/water</b>	:	Not available.
<b>Auto-ignition temperature</b>	:	Not available.
<b>Decomposition temperature</b>	:	Not available.
<b>Viscosity</b>	:	<b>Dynamic:</b> Not available. <b>Kinematic:</b> Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	:	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	:	The product is stable.
<b>Possibility of hazardous reactions</b>	:	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	:	No specific data.
<b>Incompatible materials</b>	:	No specific data.
<b>Hazardous decomposition products</b>	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
	LD50 Oral	Rat	> 5,000 mg/kg	-
	LC50 Inhalation	Rat	> 5 mg/l	4 h
	LD50 Dermal	Rat	> 5,000 mg/kg	-

**Conclusion/Summary** : Toxic to humans or animal life.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
	Eyes - Redness of the conjunctivae	Rabbit	2.0		-
	Skin - Erythema/Es	Rabbit	2.3		-

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**Conclusion/Summary**

**Skin** : Irritating  
**Eyes** : Causes eye irritation.  
**Respiratory** : May cause respiratory irritation

**Sensitization**

Product/ingredient name	Route of exposure	Species	Result
	Skin	Guinea pig	Not sensitizing

**Conclusion/Summary**

**Skin** : Not sensitizing - based on the individual components.  
**Respiratory** : No results available.

**Mutagenicity**

**Conclusion/Summary** : No results available.

**Carcinogenicity**

**Conclusion/Summary** : Neurological hazard.

**Classification**

Product/ingredient name	OSHA	IARC	NTP
Benzene, ethyl-		2B	
Acetylene black		12B	

**Reproductive toxicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

**Teratogenicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

**Specific target organ toxicity (single exposure)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on the likely routes of exposure** : Not available.

**Potential chronic health effects**

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<b>Conclusion/Summary</b>	:	No results available.
<b>General</b>	:	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	:	May cause cancer. Risk of cancer depends on duration and level of exposure.
<b>Mutagenicity</b>	:	May cause genetic defects.
<b>Teratogenicity</b>	:	No known significant effects or critical hazards.
<b>Developmental effects</b>	:	No known significant effects or critical hazards.
<b>Fertility effects</b>	:	No known significant effects or critical hazards.

## Section 12. Ecological information

### Toxicity

<b>Conclusion/Summary</b>	:	Not available.
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### Persistence and degradability

<b>Conclusion/Summary</b>	:	Not available.
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### Mobility in soil

<b>Soil/water partition coefficient (KOC)</b>	:	Not available.
<b>Other adverse effects</b>	:	No known significant effects or critical hazards.

## Section 13. Disposal considerations

<b>Disposal methods</b>	:	The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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## Section 14. Transport information

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<b><u>Regulatory information</u></b>	<b><u>UN no.</u></b>	<b><u>Proper shipping name</u></b>	<b><u>Class</u></b>	<b><u>PG*</u></b>	<b><u>Note</u></b>
DOT	1950	Aerosols flammable, (each not exceeding 1 L capacity)	2.1	(,)	
IATA (C)	1950	Aerosols, flammable	2.1	(,)	
IATA (P)	1950	Aerosols, flammable	2.1	(,)	
IMDG	1950	AEROSOLS	2.1	(,)	
TDG	1950	AEROSOLS flammable	2.1	(,)	

PG\* : Packing group

## Section 15. Regulatory information

### Precautionary statements

**Signal word** : CAUTION!

**Emergency Overview** : CONTENTS UNDER PRESSURE.  
 Keep out of reach of children.  
 Exposure to heat may cause bursting.  
 Do not puncture or incinerate container.  
 Do not store above 120F (49C).  
 Avoid prolonged exposure to sunlight.  
 Avoid breathing vapor or mist.  
 Contains petroleum distillates  
 Do not ingest.  
 Causes eye irritation.  
 Causes skin irritation.  
 Wash thoroughly after handling.

**U.S. Federal regulations** : **United States inventory (TSCA 8b):**  
 At least one component is not listed.

### State regulations

#### California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

<b>Ingredient name</b>	<b>Cancer</b>	<b>Reproductive</b>	<b>No significant risk level</b>	<b>Maximum acceptable dosage level</b>
Benzene, ethyl-	Yes.	No.	41 µg/day	No.
	Yes.	No.	54 µg/day	No.
Acetylene black	Yes.	No.	No.	No.

### International lists

#### National inventory

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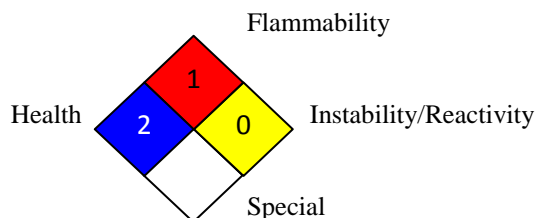
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Australia	:	At least one component is not listed.
Canada	:	At least one component is not listed.
China	:	At least one component is not listed.
Europe	:	At least one component is not listed.
Japan	:	At least one component is not listed.
Malaysia	:	Not determined.
New Zealand	:	At least one component is not listed.
Philippines	:	At least one component is not listed.
Republic of Korea	:	At least one component is not listed.
Taiwan	:	Not determined.

## Section 16. Other information

### National Fire Protection Association (U.S.A.):



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### Procedure used to derive the classification

Classification	Justification
Skin Irrit. 2, H315	On basis of test data
Eye Irrit. 2A, H319	On basis of test data
Muta. 1B, H340	Calculation method
Carc. 1B, H350	Calculation method

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**Notice to reader**

**To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.**

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