

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date: July 28, 2016

Revised on: July 28, 2016

1 IDENTIFICATION

Product Identifier / Trade Name: Halo

Product Description: Herbicide

Supplier of Data Sheet / Supplier – Manufacturer:

ICT Organics
7000 Golden Ring Rd # 9692
Rosedale, MD 21237
443.292.2420
www.ictorganics.com

Emergency Contact Information:

For Chemical Emergency Spill, Leak Fire, Exposure or Accident, call ICT Organics at: 443.292.2420

Recommended Uses / Restrictions On Use:

No further relevant information available.

2 HAZARD(S) IDENTIFICATION

Classification of Chemical or Mixture:



GHS 07

Signal Word: Warning

Label Elements: Eugenol

Hazard Statements: May cause allergic skin reaction.

Precautionary Statements: Avoid breathing dust / fume/ gas / mist / vapors / spray.

Wear protective gloves.

Contaminated work clothing must not be allowed out of workplace.

Specific treatment (see first aid instructions below).

Wash contaminated clothing before reuse.

If skin irritation or rash occurs, get medical attention.

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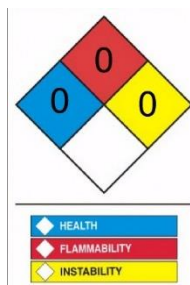
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IF ON SKIN: Wash gently with water.

Dispose of container in accordance with federal / state / local regulations.

Classification System:

NFPA Rating



HMIS Rating

HEALTH	0	4. Severe Hazard
FLAMMABILITY	0	3. Serious Hazard
REACTIVITY	0	2. Moderate Hazard
PERSONAL PROTECTION	<input type="checkbox"/>	1. Slight Hazard
		0. Minimal Hazard

Hazards Not Otherwise Classified (HNOC): None known

3 COMPOSITION / INFORMATION ON INGREDIENTS

Description: Mixture consisting of the following components:

7732-18-5	Water, distilled water, de-ionized water	
127-08-2	Potassium Acetate	%

Chemical Characterization: Mixture

Dangerous Components:

CAS: 8000-34-8 RTECS: GF 6900000	Clove Oil (<i>Eugenia caryophyllata</i>) ⚠ Skin Irrit. 2, H 315; Eye Irrit. 2A, H 319; STOT SE 3, H 335	2-12 %
CAS: 97-53-0	Eugenol ⚠ Acute Tox. 4, H 302; Skin Sensi. 1, H 317	< 2.5%
CAS: 57-13-6 RTECS: YR 6250000	Urea	
CAS: 68513-95-1	Soybean flour	

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CAS: 68917-75-9	Wintergreen Oil ⚠ Acute Tox. 4, H 302; Eye Irr. 2A, H 319	
CAS: 68424-10-2	Cottonseed Meal ⚠ Acute Tox. 4, H 302; STOT SE 3, H 335	
CAS: 68514-28-3	Ful-Humix (Potassium Humate) ⚠ Skin Irrit. 2, H 315; Eye Irrit. 2A, H 319; STOT SE 3, H 335	

4 FIRST AID MEASURES

Description of First Aid Measures:

After Inhalation: In case of unconsciousness place patient stably in side position for transportation.

After Skin Contact: Immediately wash with water and soap and rinse thoroughly.
If skin irritation occurs, consult a doctor.

After Eye Contact: Rinse opened eye under running water for several minutes.

After Swallowing: If swallowed and symptoms occur, consult a doctor.

Information For Doctor:

Most Important Symptoms and Effects, Both Acute and Delayed: No further relevant information available.

Indication of any Immediate Medical Attention and Special Treatment Needed: No further relevant information available.

5 FIREFIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Agents: CO₂ extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special Hazards Arising From the Substance or Mixture: No further relevant information available.

Advice for Firefighters:

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Protective Equipment:

As in any fire, wear self-contained breathing apparatus pressure demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Not required.

Environmental Precautions: Dilute with plenty of water. Do not allow to enter sewers, surface or ground water.

Containment and Cleanup Methods: Absorb with liquid binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Dispose of collected material according to regulations.

References to Other Sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 HANDLING AND STORAGE

Handling:

Precautions For Safe Handling: ensure good ventilation at the workplace. Prevent formation of aerosols.

Information About Protection Against Explosions and Fires: No special measures required.

Storage:

Requirements to be Met by Storerooms and Receptacles: No special requirements.

Information About Storage in One Common Storage Facility: Not required.

Further Information About Storage Conditions: None

Specific End Use(s): No further relevant information available.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Information About Design of Technical Systems: No further data. See Section 7.

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Exposure Control Parameters:

Components of Product With Occupational Exposure Limits:	
8000-34-8 Clove Oil (<i>Eugenia caryophyllata</i>)	
TWA	Short Term Value: 5 mg / m ³ Long Term Value: 10 mg / m ³
57-13-6 Urea	
WEEL	Long Term Value: 10 mg / m ³

Additional Control Information: The lists were valid at the time this SDS was completed.

Personal Protection:

General Protective and Hygienic Measures: The usual precautionary measures for handling chemicals should be followed. Remove all soiled and contaminated clothing and wash before reuse.

Breathing Equipment: Not required.

Protection of Hands:



Protective Gloves

Protection of Eyes:



Goggles recommended during refilling.

9 PHYSICAL AND CHEMICAL PROPERTIES

General Information:

Appearance:

Form: Liquid

Color: Light Brown

Odor: Clove

Odor Threshold: Not Determined.

Change Parameters:

Melting Point / Melting Range: Not Determined.

Boiling Point / Boiling Range: 100° C (212° F).

Flash Point: None

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Flammability: Not applicable.

Ignition Temperature: Not Determined.

Auto Igniting: Product is not self igniting.

Decomposition Temperature: Not Determined.

Explosion Limits:

Lower: Not Determined.

Upper: Not Determined.

Vapor Pressure: Not Determined.

Density:

Relative Density: Not Determined.

Vapor Density: Not Determined.

Evaporation Rate: Not Determined.

Solubility in / Miscibility with Water: Fully miscible.

Partition Coefficient (n-octanol / water): Not Determined.

Viscosity:

Dynamic: Not Determined.

Kinetic: Not Determined.

Solvent Content:

Organic Solvents: 0.0%

Solids Content: 1.5%

Other Information: No further relevant information available.

10 STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.

Thermal Decomposition / Conditions to be Avoided: No decomposition if used according to specifications.

Hazardous Decomposition Products: No hazardous decomposition products known.

Reactivity: No further relevant information available.

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Possibility of Hazardous Reactions: No dangerous reactions known.

Conditions to Avoid: No further relevant information available.

Incompatible Materials: No further relevant information available.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

LD /L LC 50 values that are relevant for classification:		
8000-34-8 Clove Oil (<i>Eugenia caryophyllata</i>)		
Oral	LD 50	2650 mg / kg (rat)
Dermal	LD 50	>5.000 mg / kg (rabbit)
97-53-0 Eugenol		
Oral	LD 50	1930 mg / kg (rat)
57-13-6 Urea		
Oral	LD 50	8471 mg / kg (rat)

Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations:

Carcinogenicity:

Listed by IARC (International Agency for Research on Cancer)?

97-53-0 Eugenol.

Listed by NTP (National Toxicological Program)?

None of the ingredients are listed.

Listed by OSHA (Occupational Safety & Health Administration)?

None of the ingredients are listed.

12 ECOLOGICAL INFORMATION

Persistence and Degradability: No further relevant information available.

Mobility in Soil: No further relevant information available.

Aquatic Toxicity: 57-13-6 Urea EC 50 >10000 mg / l (daphnia)

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Potential for Bioaccumulation Bioconcentration: No further relevant information available.

Additional Information on Ecological Effects: Do not allow undiluted product or product that has not been neutralized to reach sewer, surface or ground water.

Results of PBT and vPvB Assessment:

PBT: Not applicable.

vPvB: Not applicable.

13 DISPOSAL CONSIDERATIONS

Recommendations for Unused Product Disposal: Smaller quantities can be disposed of with household waste. Observe all federal, state and local environmental regulations when disposing of this material.

Recommendations for Product Container Disposal: Observe all federal, state and local environmental regulations.

14 TRANSPORT INFORMATION

UN Number:

DOT / ADR / AND / IMDG / IATA: Non-Regulated Material

UN Proper Shipping Name:

DOT / ADR / AND / IMDG / IATA: Non-Regulated Material

Transport Hazard Class:

DOT / ADR / AND / IMDG / IATA: Non-Regulated Material

Packing Group:

DOT / ADR / AND / IMDG / IATA: Non-Regulated Material

Environmental Hazards: Not Applicable

Special Precautions for User: Not Applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not Applicable.

UN "Model Regulation": Non-Regulated Material

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15 REGULATORY INFORMATION

SARA (Superfund Amendments and Reauthorization)

Section 355 (Extremely Hazardous Substances):

None of the ingredients are listed.

Section 313 (Specific Toxic Chemical Listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

All of the ingredients are listed.

California Proposition 65:

Chemicals Known to Cause Cancer:

None of the ingredients are listed.

Chemicals Known to Cause Reproductive Toxicity For Females:

None of the ingredients are listed.

Chemicals Known to Cause Reproductive Toxicity For Males:

None of the ingredients are listed.

Chemicals Known to Cause Developmental Toxicity:

None of the ingredients are listed.

Carcinogenicity:

EPA (Environmental Protection Agency):

57-13-6 Urea.

TLV (Threshold Limit Value) Established by ACGIH:

None of the ingredients are listed.

NIOSH (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

GHS Label Elements:

The product is classified and labeled according the Globally Harmonized System (GHS).

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Hazard Pictogram:



Signal word: Warning

Hazard Determining Component: Eugenol

Precautionary Statements: Avoid breathing dust / fume / gas / vapor / mist / spray.

Wear Protective gloves.

Contaminated work clothing must not be allowed out of the workplace.

Specific treatment: see First Aid section of this SDS.

Wash contaminated clothing before reuse.

If on skin, wash with plenty of water.

If skin irritation occurs get medical attention.

Dispose of contents / container in accordance with local / regional / national regulations.

National Regulations:

The product is subject to be classified according to the latest version of the regulations on hazardous substances.

State Right To Know Data On Ingredients:

CAS: 7732-18-5	Water, distilled water, deionized water	
CAS: 8000-34-8 RTECS: GF 6900000	Clove Oil (<i>Eugenia caryophyllata</i>) Skin Irrit. 2, H315; Eye Irrit. 2-A, H319; STOT SE 3, H335	2-12 %
CAS: 97-53-0	Eugenol Acute Tox. 4, H302; STOT SE 3, H335	
CAS: 68424-10-2	Cottonseed Meal Acute Tox. 4, H302; STOT SE 3, H335	
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CAS: 68917-75-9	Wintergreen Oil Acute Tox. 4, H302; Eye Irrit. 2A, H319	
CAS: 68513-95-1	Soybean Flour	
CAS: 68514-28-3	Full Humix (Potassium humate) Skin Irrit. 2, H315; Eye Irrit. 2A; H319; STOT SE 3, H335	
CAS: 127-08-2	Potassium acetate	
All ingredients are listed.		



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Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out.

16 OTHER INFORMATION

The information and recommendations in this Safety Data Sheet (SDS) are, to the best of our knowledge, accurate as of the date of issue / review. Nothing herein shall be deemed to create a warranty, express or implied. It is the responsibility of the user to determine applicability of this information and the suitability of the product for any particular purpose.

Date of Preparation / Last Revision: April 4, 2016

Alterations Since Last Revision: None.

This SDS format / template was developed in accordance with the OSHA guidelines listed at <https://www.osha.gov/Publications/OSHA3514.html> and is compliant with GHS requirements.