

# Safety Data Sheet



Revision Date 08-Sep-2014  
Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** KILL ODOR PLUS  
**Product code** W.20234  
**Manufacturer** Chemspec  
 901 North Newkirk Street  
 Baltimore, MD 21205  
**Emergency telephone number** Chemtrec: 1-800-424-9300 for US  
 +1 703-527-3887 outside US

## 2. Hazards identification

### Emergency Overview

May cause central nervous system depression  
 May cause adverse kidney effects

### Potential Health Effects

#### Acute toxicity

##### Eyes

May cause slight irritation.

##### Skin

No known effect based on information supplied.

##### Inhalation

May be harmful if inhaled.

##### Ingestion

No known effect based on information supplied.

#### Chronic Effects

May cause adverse liver effects.

#### Aggravated Medical Conditions

Central nervous system. Preexisting eye disorders. Blood disorders. Kidney disorders. Liver disorders. Skin disorders. Respiratory disorders. Hematopoietic system.

#### Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

#### Environmental hazard

See Section 12 for additional Ecological Information.

## 3. Composition/information on ingredients

Component	CAS-No	Weight %
ETHANOL, 2-BUTOXY- 111-76-2 ( 10-30 )	111-76-2	10-30
Butylated hydroxytoluene (BHT) 128-37-0 ( <0.1 )	128-37-0	<0.1

## 4. First aid measures

#### General advice

Show this material safety data sheet to the doctor in attendance.

#### Eye contact

Remove contact lenses. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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<b>Skin contact</b>	Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Gently wipe or rinse the inside of the mouth with water.
<b>Notes to physician</b>	Treat symptomatically.

### 5. Fire-fighting measures

<b>Flammable Properties</b>	Not flammable.
<b>Flash point</b>	Not determined. Not Determined
<b>Suitable extinguishing media</b>	Water spray. Foam. Dry powder.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. Accidental release measures

<b>Personal precautions</b>	Use personal protective equipment.
<b>Environmental precautions</b>	No special environmental precautions required.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

### 7. Handling and storage

<b>Advice on safe handling</b>	Wear personal protective equipment.
<b>Technical measures/Storage conditions</b>	Use only in area provided with appropriate exhaust ventilation. Keep tightly closed in a dry and cool place.

### 8. Exposure controls/personal protection

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico
ETHANOL, 2-BUTOXY- 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>	TWA: 26 ppm TWA: 120 mg/m <sup>3</sup> STEL: 75 ppm STEL: 360 mg/m <sup>3</sup>
Butylated hydroxytoluene (BHT) 128-37-0	TWA: 2 mg/m <sup>3</sup> inhalable fraction and vapor	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>
Component	British Columbia	Alberta	Quebec	Ontario TWA EV
ETHANOL, 2-BUTOXY- 111-76-2 ( 10-30 )	TWA: 20 ppm	TWA: 20 ppm TWA: 97 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 97 mg/m <sup>3</sup>	TWA: 20 ppm
Butylated hydroxytoluene (BHT) 128-37-0 ( <0.1 )	TWA: 2 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	STEL: 10 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>

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<b>Other Exposure Guidelines</b>	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).
<b>Engineering Measures</b>	Showers Eyewash stations Ventilation systems.
<b>Personal Protective Equipment</b>	
<b>Hand Protection</b>	Rubber gloves Rubber/latex/neoprene or other suitable chemical resistant gloves
<b>Eye/Face Protection</b>	Safety glasses with side-shields. Goggles.
<b>Skin and body protection</b>	Skin and body protection.
<b>Respiratory protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
<b>Hygiene measures</b>	When using, do not eat, drink or smoke.

## 9. Physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	Clear liquid
<b>Odor</b>	Clean
<b>Color</b>	Yellow

Property	Values	Remarks • Methods
pH	7.3	
Boiling point/boiling range	Not Determined	
Flash Point	Not Determined	
Evaporation rate	no data available	
Explosion Limits		
upper		
lower		
Vapor pressure	no data available	
Vapor density	no data available	
Specific Gravity	1.011 g/cc	
Viscosity, kinematic	no data available	
Water solubility	no data available	
Partition coefficient: n-octanol/water	no data available	
Explosive properties	no data available	

<b>Other information</b>		
Volatile organic compounds (VOC) content	15%	
Melting/freezing point		
Freezing Point		Not Determined

## 10. Stability and reactivity

<b>Stability/Reactivity</b>	Stable under recommended storage conditions.
<b>Incompatible products</b>	None known based on information supplied.
<b>Conditions to Avoid</b>	Direct sources of heat.
<b>Hazardous Decomposition Products</b>	Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. Toxicological information

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**Acute toxicity**

**Product Information** The product itself has not been tested.

**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
ETHANOL, 2-BUTOXY-	470 mg/kg ( Rat )	220 mg/kg ( Rabbit )	450 ppm ( Rat ) 4 h
Butylated hydroxytoluene (BHT)	890 mg/kg ( Rat )		

**Chronic toxicity**

**Chronic toxicity** May cause adverse liver effects

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico
ETHANOL, 2-BUTOXY-	A3	Group 3			
Butylated hydroxytoluene (BHT)		Group 3			

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Target Organ Effects** Blood Central nervous system Eyes Hematopoietic System Kidney Liver Respiratory system Skin

## 12. Ecological information

**Ecotoxicity**

No information available. .

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms	Toxicity to other organisms
ETHANOL, 2-BUTOXY-		LC50: 96 h Lepomis macrochirus 1490 mg/L static LC50: 96 h Lepomis macrochirus 2950 mg/L	EC50: 48 h Daphnia magna 1000 mg/L		
Butylated hydroxytoluene (BHT)	EC50: 72 h Pseudokirchneriella subcapitata 6 mg/L EC50: 72 h Desmodesmus subspicatus 0.42 mg/L				

**Persistence and degradability** No information available.

**Bioaccumulation** .

**Mobility** No information available.

Chemical Name	log Pow
ETHANOL, 2-BUTOXY-	0.81
Butylated hydroxytoluene (BHT)	4.17

## 13. Disposal considerations

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<b>Waste Disposal Methods</b>	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

<b>DOT</b>	Not regulated
<b>MEX</b>	Not regulated

## 15. Regulatory information

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies
<b>NZIoC</b>	Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

"-" - Unknown. Not listed.

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	Weight %	SARA 313 - Threshold Values %
ETHANOL, 2-BUTOXY-	10-30	1.0

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

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**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1000 lb			X

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
ETHANOL, 2-BUTOXY-	X	X	X	X	
Sodium hydroxide	X	X	X		
Butylated hydroxytoluene (BHT)	X	X	X		

**International Regulations**

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

Non-controlled

**16. Other information**

<b>NFPA</b>	Health Hazard 2	Flammability 0	Stability/Reactivity 0	Physical and chemical hazards -
<b>HMIS</b>	Health Hazard 2	Flammability 0	Physical Hazard 0	Personal protection -

**Prepared By** Chemspec Regulatory Affairs/Product Safety

**Revision Date** 08-Sep-2014

**Revision Note** No information available.

**Legend:**

**NIOSH IDLH: Immediately Dangerous to Life or Health**

**Disclaimer**

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

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**End of Material Safety Data Sheet**