

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

#### GHS Product Identifier

PRODUCT NAME	Ghost™ Dry Oil
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#### Other means of Identification

SYNONYMS	None
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#### Recommended Use of the chemical and restrictions of use

RECOMMENDED USE	No information available
USES ADVISED AGAINST	No information available

#### Supplier's Details

ADDRESS	Chicago Aerosol 1300 North Street Coal City, IL 60416
EMERGENCY TELEPHONE	(866) 643-5100 Chemtrec (800) 424-9300

### 2. HAZARD IDENTIFICATION

#### Classification

SERIOUS EYE DAMAGE/ EYE IRRITATION	CATEGORY 2A
CARCINOGENICITY	CATEGORY 2
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)	CATEGORY 3
SIMPLE ASPHYXIAN	YES
FLAMMABLE AEROSOLS	CATEGORY 1
GASES UNDER PRESSURE	

## EMERGENCY OVERVIEW

SIGNAL WORD DANGER HAZARD STATEMENTS	Causes serious eye irritation
	Suspected of causing cancer
	May cause respiratory irritation
	May cause drowsiness or dizziness
	Extremely flammable aerosol



APPEARANCE	PHYSICAL STATE	ODOR
		Fragranced

## Precautionary Statements

PREVENTION	Obtain special instructions before use.
	Do not handle until all safety precautions have been read and understood.
	Use personal protective equipment as required.
	Wash face, hands and any exposed skin thoroughly after handling.
	Wear eye/face protection.
	Avoid breathing dust/fume/gas/mist/vapors/spray.
	Use only outdoors or in a well-ventilated area.
	Keep away from heat/sparks/open flames/hot surfaces - No smoking.
	Do not spray on an open flame or other ignition source.
	Pressurized container: Do not pierce or burn, even after use.

GENERAL ADVICE	If exposed or concerned: Get medical attention/advice
EYES	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.
INHALATION	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
STORAGE	Store locked up.
	Store in a well-ventilated place. Keep container tightly closed.
	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F
DISPOSAL	Dispose of contents/container to an approved waste disposal plant.

HAZZARD NOT OTHERWISE CLASSIFIED (HNOC)	Rapid evaporation of the liquid may cause frostbite.
OTHER INFORMATION	May be harmful if inhaled. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS-NO	WEIGHT %	TRADE SECRET
Ethyl Alcohol	64-17-5	<35	*
Propane	74-98-6	< 25	*
Butane	106-97-8	< 50	*

*\*The exact percentage (concentration) of composition has been withheld as a trade secret.*

## 4. FIRST AID MEASURES

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

EYE CONTACT	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.
SKIN CONTACT	Wash off with warm water and soap. In case of contact with liquefied gas, thaw frosted parts with lukewarm water. Get medical attention if symptoms occur.
INHALATION	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
INGESTION	Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

*Most important symptoms/effects, acute and delayed*

MOST IMPORTANT SYMPTOMS/ EFFECTS	Eye irritation/reactions. Frostbite. Drowsiness. Dizziness. Simple asphyxiant.
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*Indication of immediate medical attention and special treatment needed, if necessary*

NOTES TO PHYSICIAN	Treat symptomatically.
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## 5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Alcohol-resistant foam. Water fog.
UNSUITABLE EXTINGUISHING MEDIA	No Information available
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	No Information available
HAZARDOUS COMBUSTION PRODUCTS	Thermal decomposition can lead to release of irritating and toxic gases and vapors: Carbon oxides. Nitrogen oxides (NO <sub>x</sub> ).

*Explosion Data*

SENSITIVITY TO MECHANICAL IMPACT	Yes
SENSITIVITY TO STATIC DISCHARGE	Yes

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
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## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Contents under pressure. Remove all sources of ignition. Do not puncture or incinerate cans. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material.
ENVIRONMENTAL PRECAUTIONS	See Section 12 for additional Ecological Information.

METHODS FOR CONTAINMENT	Prevent further leakage or spillage if safe to do so.
METHODS FOR CLEANING UP	Pick up and transfer to properly labeled containers. Cover liquid spill with sand, earth or other noncombustible absorbent material. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### *Precautions for safe handling*

HANDLING	Contents under pressure. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing.
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### *Conditions for safe storage, including any incompatibilities*

STORAGE	Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals.
INCOMPATIBLE PRODUCTS	Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION EQUIPMENT

### *Control Parameters*

#### *Exposure Guidelines*

CHEMICAL NAME	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl Alcohol	TWA: 1000 ppm	TWA: 1000 ppm	TWA: 1000 ppm
Ethyl Alcohol 64-17-5			

### *Appropriate engineering controls*

ENGINEERING MEASURES	Showers
	Eyewash stations
	Ventilation systems

*Individual protection measures, such as personal protective equipment*

EYE/FACE PROTECTION	No protective equipment is needed under normal use conditions. Risk of contact, wear: Safety glasses with side-shields.
SKIN AND BODY PROTECTION	No protective equipment is needed under normal use conditions. Lightweight protective clothing. Protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.
RESPIRATORY PROTECTION	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.
HYGIENE MEASURES	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Aerosol
APPEARANCE	Clear
ODOR	Fragranced
ODOR THRESHOLD	No information available

PROPERTY	VALUES	REMARKS/ - METHOD
pH	No data available	Enter Here
MELTING POINT/RANGE	No data available	Enter Here
BOILING POINT/RANGE	79.4 C / 175 F	For concentrate
FLASH POINT	18.3 C/ 65 F	Open cup (for pure ethanol)
EVAPORATION RATE	> 1	Enter Here
FLAMMABILITY (SOLID, GAS)	No data available	Enter Here
FLAMMABILITY, LIMITS IN AIR	No data available	Enter Here
UPPER FLAMMABILITY LIMIT	No data available	Enter Here
LOWER FLAMMABILITY LIMIT	No data available	Enter Here
VAPOR PRESSURE	45-55 psig@ 70F	Enter Here
VAPOR DENSITY	No data available	Enter Here
SPECIFIC GRAVITY	1.02	water = 1

PROPERTY	VALUES	REMARKS/ - METHOD
WATER SOLUBILITY	No data available	Enter Here
SOLUBILITY IN OTHER SOLVENTS	No data available	Enter Here
PARTITION COEFFICIENT: N-OCTANOL/ WATER	No data available	Enter Here
AUTOIGNITION TEMPERATURE	No data available	Enter Here
DECOMPOSITION TEMPERATURE VISCOSITY	No data available	Enter Here
FLAMMABLE PROPERTIES	Not flammable	Enter Here
EXPLOSIVE PROPERTIES	No data available	Enter Here
OXIDIZING PROPERTIES	No data available	Enter Here

*Other information*

VOC CONTENT (%)	92%
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## 10. STABILITY AND REACTIVITY

REACTIVITY	Not reactive under normal conditions.
CHEMICAL STABILITY	Stable under recommended storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS	None under normal processing.
HAZARDOUS POLYMERIZATION	Hazardous polymerization does not occur.
CONDITIONS TO AVOID	Heat, flames and sparks.
INCOMPATIBLE MATERIALS	Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon oxides. Nitrogen oxides (NOx).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### *Production Information*

INHALATION	May cause irritation of respiratory tract. May cause drowsiness and dizziness. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
EYE CONTACT	Contact with eyes may cause serious eye irritation based on the components present within the product.
SKIN CONTACT	Contact with product may cause frostbite.
INGESTION	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

CHEMICAL NAME	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Ethyl Alcohol	7060 mg/kg (Rat)	-	124.7 mg/L ( Rat) 4 h

### *Symptoms related to the physical, chemical & toxicological characteristics*

SYMPTOMS	Eye contact with liquid may cause irritation including stinging, burning, tearing, or reddening of the eyes. Avoid skin contact with leaking liquid (danger of frostbite).
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### *Delayed & immediate effects and also chronic effects from short & long term exposure*

SENSITIZATION	No information available.
MUTAGENIC EFFECTS	No information available.
CARCINOGENICITY	Ethanol has been shown to be carcinogenic in long-term studies only when consumed and abused as an alcoholic beverage. Vinyl acetate is identified by IARC and ACGIH as a potential carcinogen based on data in animal studies. Lifetime exposure to high vapor concentrations (600 ppm) of Vinyl acetate caused malignant and benign tumors of the respiratory tract of rats, but not in mice: this response possibly being associated with the irritant effect. Vinyl acetate has been tested for carcinogenic potential in rats in two separate drinking water studies. In one study, in which animals were exposed to concentrations up to 0.5% in water, there was no evidence of carcinogenicity. In the second study, conducted at higher concentrations (up to 1% in water), evidence of cancer in the stomach and oral cavities was observed. There is no evidence that vinyl acetate causes cancer in humans.



CHEMICAL NAME	ACGIH	IARC	NTP	OSHA
Ethyl Alcohol	A3	Group 1	Known	X

REPRODUCTIVE TOXICITY	No information available.
STOT - SINGLE EXPOSURE	May cause respiratory irritation. May cause drowsiness or dizziness.
STOT - REPEATED EXPOSURE	No information available.
ASPIRATION HAZARD	No information available.

### Numerical measures of toxicity - Product

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 ORAL	8538 mg/kg; Acute toxicity estimate
LD50 DERMAL	23700 mg/kg; Acute toxicity estimate
INHALATION	mg/L; Acute toxicity estimate
VAPOR	134.2 mg/L; Acute toxicity estimate

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

CHEMICAL NAME	TOXICITY TO ALGAE	TOXICITY TO FISH	TOXICITY TO MICROORGANISMS	DAPHNIA MAGNA (WATER FLEA)
Ethyl Alcohol		LC50 96 h: 12.0-16.0mL/L	EC50=34634 mg?L 30 min	LC50 48h: 9268-14221 mg/L

PERSISTENCE AND DEGRADABILITY	No information available.
BIOACCUMULATION	No information available.

CHEMICAL NAME	LOG POW
Ethyl Alcohol	-0.32

OTHER ADVERSE EFFECTS	No information available.
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## 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS	Dispose of in accordance with federal, state, and local regulations.
CONTAMINATED PACKAGING	Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

### DOT

PROPER SHIPPING NAME	Dispose of in accordance with federal, state, and local regulations.
HAZARD CLASS	ORM-D
DESCRIPTION	Consumer commodity, ORM-D
EMERGENCY RESPONSE GUIDE NUMBER	126

### TDG

UN-NUMBER	UN 1950
PROPER SHIPPING NAME	Aerosols
HAZARD CLASS	2.1
DESCRIPTION	UN 1950, Aerosols, 2.1

### MEX

UN-NUMBER	UN 1950
PROPER SHIPPING NAME	Aerosols
HAZARD CLASS	2.1
DESCRIPTION	UN 1950, Aerosols, 2.1

## ICAO

UN-NUMBER	ID8000
PROPER SHIPPING NAME	Consumer commodity
HAZARD CLASS	9
DESCRIPTION	ID8000, Consumer commodity, 9

## IATA

UN-NUMBER	ID8000
PROPER SHIPPING NAME	Consumer commodity
HAZARD CLASS	9
ERG CODE	9L
DESCRIPTION	ID8000, Consumer commodity, 9

## IMDG/IMO

UN-NUMBER	UN 1950
PROPER SHIPPING NAME	Aerosols
HAZARD CLASS	2.1
EMS NO.	F-D, S-U
DESCRIPTION	UN 1950, Aerosols, 2.1 (18.3C o.c.)

## 15. REGULATORY INFORMATION

### International Inventories

TSCA	All components of this product are either listed or are exempt on the TSCA inventory.
DSL	Substances comply or are exempt

### Legend

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL	Canadian Domestic Substances List/Non-Domestic Substances List

U.S. FEDERAL REGULATIONS	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:
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CHEMICAL NAME	CAS-NO	WEIGHT %	SARA 313 - THRESHOLD VALUES %

### SARA 311/312 Hazard Categories

ACUTE HEALTH HAZARD	Yes
CHRONIC HEALTH HAZARD	Yes
FIRE HAZARD	Yes
SUDDEN RELEASE OF PRESSURE HAZARD	Yes
REACTIVE HAZARD	No

### Clean Water Act

CHEMICAL NAME	CWA - REPORTABLE QUANTITIES	CWA - TOXIC POLLUTANTS	CWA - PRIORITY POLLUTANTS	CWA - HAZARDOUS SUBSTANCES

### CERCLA

CHEMICAL NAME	HAZARDOUS SUBSTANCES RQS	EXTREMELY HAZARDOUS SUBSTANCES RQS	RQ

U.S. STATE REGULATIONS CALIFORNIA PROPOSITION 65	Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.
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CHEMICAL NAME	CAS-NO	CALIFORNIA PROP. 65
Ethyl alcohol	64-17-5	Developmental

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

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA	ILLINOIS	RHODE ISLAND
Ethyl alcohol	X	X	X	-	

## U.S. EPA Label Information

EPA PESTICIDE REGISTRATION NUMBER	Not applicable
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## 15. REGULATORY INFORMATION

NFPA	Health Hazard 2	Flammability 4	Instability 0	Physical and Chemical Hazards
HMIS	Health Hazard 2*	Flammability 4	Physical Hazard 0	Personal Protection X

\*Indicates a chronic health hazard.

PREPARED BY	Chicago Aerosol 1300 North Street Coal City, IL 60416 (800) 572-6501
ISSUING DATE	9-Sep-15
REVISION DATE	9-Sep-15
REVISION NOTE	Initial Release

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