

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: THAWZONE-ITEM#17001, 17004, 17016

GENERAL USE: CHEMICAL ADDITIVE

PRODUCT DESCRIPTION: Clear liquid, characteristic alcohol odor

MANUFACTURER'S NAME

Highside Chemicals, Inc.

DATE PREPARED: March 10, 2012

SUPERSEDES: July 22, 2002

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ADDRESS (NUMBER, STREET, P.O. BOX)

11114 Reichhold Road

TELEPHONE NUMBER FOR INFORMATION

(228) 896-9220

(CITY, STATE AND ZIP CODE)

Gulfport, MS 39503

COUNTRY

USA

EMERGENCY TELEPHONE NUMBER

ChemTel Inc. 1- (800) 255-3924 Intl. + 01 (813) 248-0585

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Colorless flammable liquid, potentially hazardous vapors. Can cause eye and skin irritation upon contact. Inhalation of vapors can cause anesthetic effect leading to death in poorly ventilated areas. Hazard symbols for this product - F, Xi Risk Phrases - R11, 20, 36/38

POTENTIAL HEALTH EFFECTS

INHALATION: High concentrations are irritating to the respiratory tract; may cause headache, dizziness, drowsiness, nausea, vomiting and malaise.

SKIN: Brief contact may cause slight irritation; prolonged contact may cause moderate reddening, swelling and possible necrosis.

EYES: Contact causes severe irritation and pain associated with redness and swelling of the conjunctiva.

INGESTION: Moderately toxic; may cause headache, dizziness, diarrhea and general weakness; large doses may result in red blood cell hemolysis.

CARCINOGENICITY

NTP?

No

IARC MONOGRAPHS?

No

OSHA REGULATED?

No

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	EINECS #	%(by weight)	OSHA PEL		ACGIH TWA		LBS
				PPM	MG/M3	PPM	MG/M3	
Ethanol(a)	64-17-5	200-578-6	90-98	1000	1900	1000		
Isopropyl alcohol	67-63-0	200-661-7	3-7	400	980	400		

(a) Ingredients included in the Canadian Ingredient Disclosure List are one of the four categories of ingredients whose identity and concentration must be disclosed on an MSDS if found in a controlled product above the concentration cut-off.

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SECTION 4 - FIRST AID MEASURES									
INHALATION: Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.									
SKIN: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.									
EYES: Check for and remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.									
INGESTION: Give two glasses of water for dilution; Induce vomiting by sticking fingers down throat; never give anything by mouth to an unconscious person; seek medical attention.									
SECTION 5 - FIRE FIGHTING MEASURES									
FLASH POINT (METHOD USED) 60° F (15.6° C) PMCC	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">FLAMMABLE LIMITS</td> <td style="padding: 2px;">LEL: 3.3%</td> <td style="padding: 2px;">UEL: 19.0%</td> </tr> <tr> <td style="padding: 2px;">AUTOIGNITION TEMPERATURE:</td> <td style="padding: 2px;">Not determined</td> <td style="padding: 2px;">NFPA CLASS: IB</td> </tr> </table>			FLAMMABLE LIMITS	LEL: 3.3%	UEL: 19.0%	AUTOIGNITION TEMPERATURE:	Not determined	NFPA CLASS: IB
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AUTOIGNITION TEMPERATURE:	Not determined	NFPA CLASS: IB							
GENERAL HAZARDS: Product is flammable. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.									
EXTINGUISHING MEDIA Carbon dioxide, water, water fog, dry chemical, chemical foam									
FIRE FIGHTING PROCEDURES Self - contained respiratory equipment; cool containers to prevent pressure buildup and possible explosion when exposed to extreme heat. Caution - material is flammable!									
UNUSUAL FIRE AND EXPLOSION HAZARDS Closed containers can explode due to buildup of pressure when exposed to extreme heat. Vapors may cause a flash fire or ignite explosively. Vapors may travel a considerable distance to a source of ignition and flash back.									
HAZARDOUS COMBUSTION PRODUCTS Smoke, fumes, oxides of carbon									
SECTION 6 - ACCIDENTAL RELEASE MEASURES									
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CAUTION - FLAMMABLE - Evacuate and ventilate area; remove all sources of sparks, ignition and open flames; confine and absorb into approved absorbent; place material into approved containers for disposal; do not wash to sewer or waterway.									
SECTION 7 - HANDLING AND STORAGE									
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. CAUTION - FLAMMABLE - keep away from all sources of ignition. "Empty" containers may contain residue which may form explosive vapors. Do not weld or cut near empty container that has not been professionally reconditioned. Use non-sparking tools when opening and closing containers. Maintain well ventilated work areas to minimize exposure when handling this material.									
SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION									
ENGINEERING CONTROLS The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment. See Section 2 for Component Exposure Guidelines.									
PERSONAL PROTECTION: RESPIRATORY PROTECTION: None required while threshold limits (Section 3) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer o 29 CFR 1910.134, ANSI Z88.2, or European Standard EN 149 for complete regulations.									
PROTECTIVE GLOVES: Neoprene or rubber gloves with cuffs.									
EYE PROTECTION: Protective eyeglasses or chemical safety goggles. Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.									
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyebath nearby									
WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.									

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES				
APPEARANCE AND ODOR Clear liquid, characteristic alcohol odor		VAPOR DENSITY (AIR = 1) 1.6		
SPECIFIC GRAVITY (WATER = 1) 0.789-0.791		EVAPORATION RATE (Water = 1) < 1		
SOLUBILITY IN WATER Complete		% VOLATILE (BY WEIGHT) Not determined		
pH 8.5-9.0 (50% in water)		VAPOR PRESSURE 44.2 mm Hg @ 20° C		
BOILING POINT 173-176° F (78-80° C)		FREEZING POINT Not determined		
VISCOSITY Approximate that of water		VOLATILE ORGANIC COMPOUNDS (VOC's) 98%		
SECTION 10 - STABILITY AND REACTIVITY				
STABILITY UNSTABLE: STABLE: XXX		CONDITIONS TO AVOID: Extreme temperatures, open flames, sparks		
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids				
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.				
HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: XXX		CONDITIONS TO AVOID: None		
SECTION 11 - TOXICOLOGICAL INFORMATION				
Hazardous Ingredients	CAS #	EINECS #	LD50 of Ingredient Species and Route	LC50 of Ingredient Species
Ethanol (a)	64-17-5	200-578-6	1501 mg / kg Oral - rat	124.7 mg / L / 4H Inhalation - rat
Isopropyl alcohol	67-63-0	200-661-7	5840 mg / kg Oral - rat	22,500 ppm / 4H Inhalation - rat
SECTION 12 - ECOLOGICAL INFORMATION				
No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.				
SECTION 13 - DISPOSAL CONSIDERATIONS				
WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. This product may produce hazardous vapors or fumes in a closed disposal container creating a dangerous environment. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway. According to the European Waste Catalogue, waste codes are application specific and should be assigned by the user based on the application for which the product is used.				
SECTION 14 - TRANSPORT INFORMATION				
PROPER SHIPPING NAME: Ethyl alcohol mixture				
DOT HAZARD CLASS / Pack Group: 3 / II REFERENCE: 49 CFR 173.150, .173, .242 UN / NA IDENTIFICATION NUMBER: UN 1170 LABEL: FLAMMABLE LIQUID HAZARD SYMBOLS: F		IATA HAZARD CLASS / Pack Group: 3 / II IMDG HAZARD CLASS: 3 / II RID/ADR Dangerous Goods Code: 3B UN TDG Class / Pack Group: 3 / II Hazard Identification Number (HIN): 33		
Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.				

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SECTION 15 - REGULATORY INFORMATION

TSCA (Toxic Substance Control Act)

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories
Acute health, flammable

313 Reportable Ingredients:
None

CERCLA (Comprehensive Response Compensation and Liability Act)

None

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

There are no reportable chemicals present known to the state of California to cause cancer or reproductive toxicity.

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: B2, D2A, D2B

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 3.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 3 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

WGK Water Quality Index: 1

VbK Index: A I

Risk Phrases

R11 Highly flammable
R20 Harmful by inhalation
R36/38 Irritating to eyes and skin.

SYMBOL(S) REQUIRED FOR LABEL

Flammable Irritant

Safety Phrases

S16 Keep away from sources of ignition
S23 Do not breathe vapor
S25 Avoid contact with eyes
S28 After contact with skin, wash immediately with plenty of soap and water.
S29 Do not empty into drains

SECTION 16 - OTHER INFORMATION

No specific notes.

HMIS HAZARD RATINGS

HEALTH

1

* = Chronic Health Hazard

2 = MODERATE

FLAMMABILITY

3

0 = INSIGNIFICANT

3 = HIGH

PHYSICAL HAZARD

0

1 = SLIGHT

4 = EXTREME

PERSONAL PROTECTIVE EQUIPMENT

B

Safety Glasses, Gloves

REVISION SUMMARY:

This MSDS has been revised in the following sections:
Format update; Section 14, DOT classification

MSDS Prepared by:

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.