# **Material Safety Data Sheet**

BDT Magnolia Thermal Iron Protector (55% VOC)

# 1. Product and company identification

Product name : BDT Magnolia Thermal Iron Protector (55% VOC)

Manufacturer : Zotos International, INC

100 Tokeneke Road, Darien, CT 06820 www.zotos.com

Validation date : 3/11/2013.

<u>In case of emergency</u> (800) 584-8038 [24 Hours]

**Telephone number** (203) 656-7859 [8:30 a.m. - 5:00 p.m.]

<u>Transportation Emergency</u> Contact: CHEMTREC 1-800-424-9300 [US/Canada 24 Hours]

Product type : Aerosol.

## 2. Hazards identification

### **Emergency overview**

NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. Additional information on toxicological endpoints is available from the supplier upon request

**Color** : Colorless to light yellow.

Odor : Characteristic. Fragrance-like.

Hazard statements : FLAMMABLE AEROSOL. CAUSES EYE IRRITATION. MAY BE HARMFUL IF

SWALLOWED. MAY CAUSE SKIN IRRITATION.

**Precautionary measures**: Do not ingest. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks,

open flames and 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. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Wash

thoroughly after handling.

OSHA/HCS status : None.

Potential acute health effects

Inhalation : May cause respiratory irritation. Avoid breathing vapor.

Ingestion : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN

THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Skin : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN

THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. Mild irritant

**Eyes**: May cause slight transient irritation.

Potential chronic health effects

Chronic effects: No known significant effects or critical hazards.Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Over-exposure : None identified.

signs/symptoms

**Medical conditions** : None.

aggravated by overexposure

See toxicological information (Section 11)

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# 3. Composition/information on ingredients

### **United States**

Name	CAS number	%
Alcohol 1,1-difluoroethane	64-17-5 75-37-6	50.86 43.30

#### Canada

Name	CAS number	%
Alcohol	64-17-5	50.86
1,1-difluoroethane	75-37-6	43.30

#### **Mexico**

					Classification			ation
Name	CAS number	UN number	%	IDLH	Н	F	R	Special
Alcohol	64-17-5	UN1993	50.86	3300 ppm	2	3	0	-

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.

## 4. First aid measures

Eve contact

: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

## Skin contact Inhalation

Ingestion

: Remove contaminated clothing and shoes. Wash with plenty of soap and water.

- Move affected person to fresh air.
- NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. Treat symptomatically. Never give anything by mouth to an unconscious person. Call a physician.

### **Protection of first-aiders**

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### Notes to physician

: None.

# 5. Fire-fighting measures

Flammability of the product : Flammable liquid. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.

**Extinguishing media** Special exposure hazards

- : Use dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray (fog).
- : 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Unusual fire/explosion** hazards

: None known.

**Hazardous thermal** decomposition products

: may be released including hydrofluoric and/or carbonyl halides

Special protective equipment for fire-fighters : Immediately contact emergency personnel. Flammable material In case of insufficient ventilation, wear suitable respiratory equipment.

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## 6. Accidental release measures

**Personal precautions** 

: Flammable. Keep away from ignition sources such as heat/sparks/open flame. - No smoking. Do not get in eyes. Keep out of reach of children.

**Environmental precautions** 

Leaking packages should be placed in open containers outdoors away from any source of ignition

Methods for cleaning up

: Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Place spilled material in an appropriate container for disposal. After contact with skin, wash immediately with plenty of water.

# 7. Handling and storage

**Handling** 

: Keep away from ignition sources such as heat/sparks/open flame. - No smoking. Use only in well-ventilated areas. Avoid contact with ignition and heat sources and oxidizers. Do not spray on an open flame or other ignition source. Keep out of reach of children.

**Storage** 

: Avoid increased storage temperature. Keep away from ignition sources such as heat/sparks/open flame. - No smoking. Avoid contact with ignition and heat sources and oxidizers. Store away from oxidizing agents. Store in cool/well-ventilated place.

Recommendations

: PRESSURIZED CONTAINER Keep cool and protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

# 8. Exposure controls/personal protection

### **United States**

Ingredient	Exposure limits
Alcohol	ACGIH TLV (United States, 3/2012).
	STEL: 1000 ppm 15 minute(s).
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 1000 ppm 8 hour(s).
	TWA: 1900 mg/m <sup>3</sup> 8 hour(s).
	NIOSH REL (United States, 6/2009).
	TWA: 1000 ppm 10 hour(s).
	TWA: 1900 mg/m³ 10 hour(s).
	OSHA PEL (United States, 6/2010).
	TWA: 1000 ppm 8 hour(s).
	TWA: 1900 mg/m <sup>3</sup> 8 hour(s).
1,1-difluoroethane	AIHA WEEL (United States, 10/2011). TWA: 1000 ppm 8 hour(s).

### **Canada**

Occupational exposure limits		TWA (8 hours)		STEL (15 mins)		Ceiling					
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
Alcohol	US ACGIH 3/2012	_	-	_	1000	-	-	-	-	-	
	AB 4/2009	1000	1880	-	-	-	-	-	-	-	
	BC 9/2011	-	-	-	1000	-	-	-	-	-	
	ON 7/2010	-	-	-	1000	-	-	-	-	-	
	QC 9/2011	1000	1880	-	-	-	-	-	-	-	
Alcohol	US ACGIH 3/2012	-	-	-	1000	-	-	-	-	-	
	AB 4/2009	1000	1880	-	-	-	-	-	-	-	
	BC 9/2011	-	-	-	1000	-	-	-	-	-	
	ON 7/2010	-	-	-	1000	-	-	-	-	-	
	QC 9/2011	1000	1880	_	-	-	-	-	-	-	
1,1-difluoroethane	US AIHA 10/2011	1000	-	-	-	-	-	-	-	ŀ	

#### **Mexico**

#### Occupational exposure limits

Ingredient	Exposure limits
Alcohol	NOM-010-STPS (Mexico, 9/2000).  LMPE-PPT: 1000 ppm 8 hour(s).  LMPE-PPT: 1900 mg/m³ 8 hour(s).

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# 8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

**Recommended monitoring** procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures Hygiene measures** 

In case of insufficient ventilation, wear suitable respiratory equipment.

: When using do not eat, drink or smoke.

**Personal protection** 

Respiratory **Hands** 

Skin

: Chemical splash goggles. Protective clothing must be worn.

: 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.

**Eves** 

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 or dusts.

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.

**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.

Other protection : Not available.

# 9. Physical and chemical properties

**Physical state** : Liquid. [Viscous liquid.] Flash point : Closed cup: 13°C (55.4°F) Color : Colorless to light yellow. Odor Characteristic. Fragrance-like.

Hq : 6 to 9

**Boiling/condensation point** : 78.333°C (173°F) Relative density : 0.81 to 0.85

**Aerosol product** 

Type of aerosol : Spray

## 10. Stability and reactivity

Chemical stability : Stable under recommended storage and handling conditions (see section 7). Conditions to avoid

Store away from direct sunlight. Avoid contact with ignition and heat sources and

oxidizers. Store away from oxidizing agents.

Incompatible materials Separate from oxidizing materials.

**Hazardous decomposition** : Products of combustion products

**Possibility of hazardous** : Not available. reactions

**Hazardous polymerization** : Not available.

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# 11. Toxicological information

## **United States**

**Acute toxicity** 

Product/ingredient name	Result	Dose	Exposure
Alcohol	LC50 Inhalation Vapor	124700 mg/m3	4 hours
	LD50 Oral	7 g/kg	-
	LD50 Oral	7 g/kg	-

**Conclusion/Summary** 

**Chronic toxicity** 

: Not available.

Conclusion/Summary

: Not available.

**Irritation/Corrosion** 

Product/ingredient name	Result	Score	Exposure	Observation
Alcohol	Eyes - Mild irritant	-	24 hours 500	-
			milligrams	
	Eyes - Moderate irritant	-	0.06666667	-
			minutes 100	
	Even Madarata irritant		milligrams	
	Eyes - Moderate irritant	-	100 microliters	-
	Eyes - Severe irritant		500	
	Lyes - Severe initant		milligrams	
	Skin - Mild irritant	_	400	_
			milligrams	
	Skin - Moderate irritant	-	24 hours 20	-
			milligrams	
	Eyes - Moderate irritant	-	0.066666667	-
			minutes 100	
	Fire Mederate invitant		milligrams	
	Eyes - Moderate irritant	-	100 microliters	-
	Eyes - Severe irritant		500	
	Lycs - ocvere iintant		milligrams	
	Skin - Mild irritant	-	400	_
			milligrams	
	Skin - Moderate irritant	-	24 hours 20	_
			milligrams	

**Conclusion/Summary** 

: Not available.

**Sensitizer** 

Conclusion/Summary

: Not available.

**Carcinogenicity** 

**Conclusion/Summary** 

: No carcinogenic effect.

**Classification** 

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Alcohol	A3	4	-	-	-	-

**Mutagenicity** 

**Conclusion/Summary** 

: Not available.

**Teratogenicity** 

Conclusion/Summary

: Not available.

Reproductive toxicity

**Conclusion/Summary**: Not available.

**Canada** 

**Acute toxicity** 

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# 11. Toxicological information

Product/ingredient name	Result	Dose	Exposure
Alcohol	LC50 Inhalation Vapor LD50 Oral LD50 Oral	124700 mg/m3 7 g/kg 7 g/kg	4 hours -

**Conclusion/Summary** 

: Not available.

**Chronic toxicity** 

**Conclusion/Summary**: Not available.

**Irritation/Corrosion** 

Product/ingredient name	Result	Score	Exposure	Observation
Alcohol	Eyes - Mild irritant	-	24 hours 500	-
			milligrams	
	Eyes - Moderate irritant	-	0.066666667	-
			minutes 100	
			milligrams	
	Eyes - Moderate irritant	-	100	-
			microliters	
	Eyes - Severe irritant	-	500	-
			milligrams	
	Skin - Mild irritant	-	400	-
			milligrams	
	Skin - Moderate irritant	-	24 hours 20	-
			milligrams	
	Eyes - Moderate irritant	-	0.066666667	-
			minutes 100	
			milligrams	
	Eyes - Moderate irritant	-	100	-
			microliters	
	Eyes - Severe irritant	-	500	-
			milligrams	
	Skin - Mild irritant	-	400	-
			milligrams	
	Skin - Moderate irritant	-	24 hours 20	-
			milligrams	

**Conclusion/Summary** 

: Not available.

**Sensitizer** 

Conclusion/Summary

: Not available.

**Carcinogenicity** 

Conclusion/Summary

: Not available.

**Classification** 

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Alcohol	A3	4	-	-	-	-

## **Mutagenicity**

Conclusion/Summary

: Not available.

**Teratogenicity** 

**Conclusion/Summary** 

: Not available.

Reproductive toxicity

**Conclusion/Summary**: Not available.

**Mexico** 

## **Acute toxicity**

Product/ingredient name	Result	Dose	Exposure

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# 11. Toxicological information

Alcohol	LC50 Inhalation Vapor	124700 mg/m3	4 hours	
	LD50 Oral	7 g/kg	-	
	LD50 Oral	7 g/kg	-	

**Conclusion/Summary** 

**Chronic toxicity** 

: Not available.

**Conclusion/Summary**: Not available.

**Irritation/Corrosion** 

Product/ingredient name	Result	Score	Exposure	Observation
Alcohol	Eyes - Mild irritant	-	24 hours 500 milligrams	-
	Eyes - Moderate irritant	-	0.06666667 minutes 100 milligrams	-
	Eyes - Moderate irritant	-	100 microliters	-
	Eyes - Severe irritant	-	500 milligrams	-
	Skin - Mild irritant	-	400 milligrams	-
	Skin - Moderate irritant	-	24 hours 20 milligrams	-
	Eyes - Moderate irritant	-	0.06666667 minutes 100 milligrams	-
	Eyes - Moderate irritant	-	100 microliters	-
	Eyes - Severe irritant	-	500 milligrams	-
	Skin - Mild irritant	-	400 milligrams	-
	Skin - Moderate irritant	-	24 hours 20 milligrams	-

**Conclusion/Summary** 

<u>Sensitizer</u>

: Not available.

**Conclusion/Summary** 

: Not available.

**Carcinogenicity** 

**Conclusion/Summary** 

: Not available.

**Classification** 

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Alcohol	A3	4	-	-	-	-

**Mutagenicity** 

**Conclusion/Summary** 

: Not available.

**Teratogenicity** 

**Conclusion/Summary** 

: Not available.

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

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# 12. Ecological information

THE FOLLOWING DATA IN THIS SECTION IS SOURCED FROM PUBLICLY AVAILABLE DATABASES AND NOT THE REPRESENTATION OF ANY DATA COLLECTED BY ZOTOS INTERNATIONAL OR ITS AFFILIATES.

**Ecotoxicity** 

: No known significant effects or critical hazards.

### **United States**

## **Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Alcohol	Acute EC50 17.921 mg/L Marine water Acute EC50 2000 ug/L Fresh water Acute LC50 25500 ug/L Marine water	Algae - Ulva pertusa Daphnia - Daphnia magna Crustaceans - Artemia franchiscana - Larvae	96 hours 48 hours 48 hours
	Acute LC50 42000 ug/L Fresh water Chronic NOEC 0.375 ul/L Fresh water	Fish - Oncorhynchus mykiss Fish - Gambusia holbrooki - Larvae - 3 days	4 days 12 weeks
	Acute EC50 2000 ug/L Fresh water Acute LC50 25500 ug/L Marine water	Daphnia - Daphnia magna Crustaceans - Artemia franchiscana - Larvae	48 hours 48 hours
	Acute LC50 42000 ug/L Fresh water Chronic NOEC 0.375 ul/L Fresh water	Fish - Oncorhynchus mykiss Fish - Gambusia holbrooki - Larvae - 3 days	4 days 12 weeks

Conclusion/Summary
Persistence/degradability

: Not available.

**Conclusion/Summary** 

: Not available.

**Canada** 

## **Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Alcohol	Acute EC50 17.921 mg/L Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 ug/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 ug/L Marine water	Crustaceans - Artemia franchiscana - Larvae	48 hours
	Acute LC50 42000 ug/L Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae - 3 days	12 weeks
	Acute LC50 25500 ug/L Marine water	Crustaceans - Artemia franchiscana - Larvae	48 hours
	Acute LC50 42000 ug/L Fresh water Chronic NOEC 0.375 ul/L Fresh water	Fish - Oncorhynchus mykiss Fish - Gambusia holbrooki - Larvae - 3 days	4 days 12 weeks

**Conclusion/Summary** 

: Not available.

Persistence/degradability

: Not available.

Conclusion/Summary

# Mexico

## **Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Alcohol	Acute EC50 17.921 mg/L Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 ug/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 ug/L Marine water	Crustaceans - Artemia franchiscana - Larvae	48 hours
	Acute LC50 42000 ug/L Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae - 3 days	12 weeks
	Acute EC50 2000 ug/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 ug/L Marine water	Crustaceans - Artemia franchiscana - Larvae	48 hours
	Acute LC50 42000 ug/L Fresh water Chronic NOEC 0.375 ul/L Fresh water	Fish - Oncorhynchus mykiss Fish - Gambusia holbrooki -	4 days 12 weeks

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# 12. Ecological information

Chronic NOEC 0.375 ul/L Fresh water | Fish - Gambusia holbrooki - | 12 weeks | Larvae - 3 days

Conclusion/Summary

Persistence/degradability

: Not available.

**Conclusion/Summary**: Not available.

# 13. Disposal considerations

**Waste disposal** 

: Dispose of according to all federal, state and local applicable regulations.

**Contaminated packaging** 

: Waste must be disposed of according to applicable regulations. This material and its container must be disposed of as hazardous waste. Recycle, if possible. Dispose of empty containers and waste safely.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1950	Aerosols	2.1	-	PLANTAGE DAS	Limited quantity Yes.  Packaging instruction Passenger aircraft Quantity limitation: 75 kg  Cargo aircraft Quantity limitation: 150 kg  Special provisions 153, N82
TDG Classification	UN1950	AEROSOLS	2.1	-		Explosive Limit and Limited Quantity Index  1  Passenger Carrying Road or Rail Index 75
Mexico Classification	UN1950	AEROSOLES	2.1	-		Special provisions 63, 190, 277
ADR/RID Class	UN1950	AEROSOLS	2	-		Limited quantity LQ2 Special provisions 190 327 625 Tunnel code

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BDT Magnolia The	rmal Iron Prot	ector (55% VOC)					
14. Transport information							
<u> </u>						(D)	
IMDG Class	UN1950	AEROSOLS	2.1	-	2	Emergency schedules (EmS) F-D, S-U	
IATA-DGR Class	UN1950	Aerosols, flammable	2.1			Passenger and	
					Y	Cargo Aircraft Quantity limitation: 75 kg Packaging instructions: 203 Cargo Aircraft Only Quantity limitation: 150 kg Packaging instructions: 203 Limited Quantities - Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: Y203	

PG\*: Packing group

# 15. Regulatory information

**United States** 

**HCS Classification** 

: Flammable aerosol Irritating material

U.S. Federal regulations

: TSCA : Exempt

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: 1,1-difluoroethane; Alcohol; butan-1-ol SARA 311/312 MSDS distribution - chemical inventory - hazard identification: 1,1-difluoroethane: Fire hazard, Sudden release of pressure, Delayed (chronic) health hazard; Alcohol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; butan-1-ol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Air Act (CAA) 112 regulated flammable substances: 1,1-difluoroethane

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602 Class II Substances : Not listed

**DEA List I Chemicals** (Precursor Chemicals)

: Not listed

**DEA List II Chemicals** (Essential Chemicals)

: Not listed

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BDT Magnolia Thermal Iron Protector (55% VOC)

## 15. Regulatory information

### **State regulations**

Massachusetts : The following components are listed: N-BUTYL ALCOHOL; ETHYL ALCOHOL;

DIFLUOROETHANE

New York : The following components are listed: Butyl alcohol; 1-Butanol

New Jersey : The following components are listed: n-BUTYL ALCOHOL; 1-BUTANOL; ETHYL

ALCOHOL; ALCOHOL; 1,1-DIFLUOROETHANE; ETHANE, 1,1-DIFLUORO-

Pennsylvania : The following components are listed: 1-BUTANOL; DENATURED ALCOHOL

California Prop. 65

This product does not contain chemicals known to the State of California to cause cancer.

United States inventory :

(TSCA 8b)

: Not determined.

Canada

WHMIS (Canada) : Class B-2: Flammable liquid

Class B-5: Flammable aerosol.

Class D-2B: Material causing other toxic effects (Toxic).

**Canadian lists** 

**Canadian NPRI**: The following components are listed: n-Butyl alcohol; Ethanol; Volatile organic

compounds

**CEPA Toxic substances**: The following components are listed: Volatile organic compounds

Canada inventory : Not determined.

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.

### **Mexico**

Classification :



### **International regulations**

Chemical Weapons : Not listed

**Convention List Schedule I** 

**Chemicals** 

Chemical Weapons

**Convention List Schedule** 

**II Chemicals** 

Chemical Weapons

**Convention List Schedule** 

**III Chemicals** 

: Not listed

: Not listed

## 16. Other information

Hazardous Material Information System (U.S.A.)

Health 2
Flammability 4
Physical hazards 0

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## 16. Other information

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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.

**Date of printing** : **3/11/2013. Date of issue** : 3/11/2013.

**Date of previous issue** : No previous validation.

Version : 0.01

Prepared by : Regulatory Affairs Group

Indicates information that has changed from previously issued version.

## **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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