Material Safety Data Sheet VerifiTM Bed Bug Detector

SDS # : 6936-A Revision Date: 2011-09-23 Version 1



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.

Product name

Formula

Verifi[™] Bed Bug Detector

This product consists of five separate components. Below an MSDS is provided for each of the components.

Manufacturer

FMC Corporation Agricultural Products Group 1735 Market Street Philadelphia, PA 19103 General Information: Phone: (215) 299-6000 E-Mail: msdsinfo@fmc.com

Emergency telephone number

For leak, fire, spill or accident emergencies, call: +1 800.424.9300 (CHEMTREC - U.S.A.) +1 703.527.3887 (CHEMTREC - Collect - All Other Countries), Medical Emergencies: (800) 331-3148 (U.S.A. & Canada) +1 (651) 632-6793 (All Other Countries - Collect)

Revision Date:	2011-09-23
Reason for revision:	New Product

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Prepared By

FMC Corporation

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End of Material Safety Data Sheet

Material Safety Data Sheet Magnesium Chloride

SDS # : 006930-A **Revision Date:** 2011-09-09 **Version** 1



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Magnesium Chloride
Synonyms	Magnesium chloride, hexahydrate; Magnesium chloride, 6-hydrate, crystal
Supplier	Emergency telephone number
FMC Corporation	
Agricultural Products Group	For leak, fire, spill or accident emergencies, call:
1735 Market Street	+1 800.424.9300 (CHEMTREC - U.S.A.)
Philadelphia, PA 19103	+1 703.527.3887 (CHEMTREC - Collect - All Other Countries),
General Information:	Medical Emergencies:
Phone: (215) 299-6000	(800) 331-3148 (U.S.A. & Canada)
E-Mail: msdsinfo@fmc.com	+1 (651) 632-6793 (All Other Countries - Collect)

2. Hazards identification	
Appearance	colorless flakes, crystals
Physical State	Solid
Odor	odorless
Flammable properties	None known
Potential health effects Acute effects	
Eyes	May cause slight irritation.
Skin	Substance may cause slight skin irritation.
Inhalation	May cause irritation of respiratory tract.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. However, if elimination is blocked by bowel blockage or other reasons, CNS depression, lack of reflexes, hypocalcemia (deficiency of calcium in the blood) may occur.
Chronic effects	No information available.

3. Composition/information on ingredients

Hazardous ingredients

Chemical Name	CAS-No	Weight %
Magnesium Chloride	7791-18-6	100

4. First aid measures

Eye contact	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
Skin contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

5. Fire-fighting measures

Flammable properties	None known
Special hazards arising from the substa	nce or mixture
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	not applicable not applicable
Extinguishing media	
Suitable extinguishing media	Water spray, Dry chemical, Alcohol-resistant foam, Carbon dioxide (CO ₂).
Advice for fire-fighters	
Protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus and full protective gear.
<u>NFPA</u>	

Health Hazard	1
Flammability	0
Stability	0
Special Hazards	-

6. Accidental release measures

Personal precautions	Isolate and post spill area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.
Environmental precautions	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.
Other	For further clean-up instructions call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

7. Handling and storage

Handling	Do not contaminate water, food or feed by storage or disposal.
Storage	Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Store in original container only.

8. Exposure controls/personal protection

Exposure guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Occupational exposure controls	
Engineering measures	Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
Personal protective equipment	
Eye/face protection	When used according to use directions, no special eye protection is required. Handling during manufacture or in the event of an accidental release requires use of safety glasses or a face shield.
Respiratory protection	Avoid breathing vapor or mist.
Skin and body protection	Follow use directions. Avoid contact with skin and clothing.
Hand protection	Protective gloves
Hygiene measures	Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

9. Physical and chemical properties

Appearance	colorless flakes, crystals
	, ,
Color	colorless
Physical State	Solid
Odor	odorless
рН	Neutral (5% in water)
Melting Point/Range	118 °C / 244
Freezing point	No information available
Boiling Point/Range	not applicable
Flash Point	not applicable
Evaporation rate	not applicable
Autoignition Temperature	not applicableE
Flammable properties	None known
Vapor pressure	not applicable
Vapor density	No information available
Specific Gravity	1.57
Relative density	No information available
Molecular Weight	203.3

Water solubility Percent volatile Partition coefficient: Viscosity Oxidizing properties 167g/100mL No information available not applicable No information available not applicable

10. Stability and reactivity

Stability	Conversion to oxychloride upon strong ignition. When heated to temperatures above 300°C, it emits toxic fumes of chlorine gas.	
Conditions to avoid	Heat, Moisture	
Materials to avoid	2-Peroxycarboxylic acid, Strong oxidizing agents	
Hazardous decomposition products	Thermal decomposition can lead to release of toxic/corrosive gases and vapors: Hydrochloric acid.	
Hazardous polymerization	Hazardous polymerization does not occur	

11. Toxicological information

Eye contact Skin contact	Product dust may cause mechanical eye irritation. Substance may cause slight skin irritation.
LD50 Oral	8100 mg/kg (rat)
<u>Chronic Toxicity - Other Ingredient(s)</u>	
Chronic Toxicity	No information available
Carcinogenicity	Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).

12. Ecological information

Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Magnesium Chloride	(Desmodesmus subspicatus)	LC50 4210 mg/L Gambusia affinis 96 h LC50 1970-3880 mg/L Pimephales promelas 96 h		EC50 1400 mg/L 24 h EC50 140 mg/L 48 h

Environmental Fate

Persistence and degradability

No information available.

13. Disposal considerations

Magnesium Chloride	SDS #: 006930-A
-	Revision Date: 2011-09-09
	Version 1
Waste disposal methods	If these wastes cannotbe disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.
Contaminated packaging	Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions
14. Transport information	
DOT	not regulated
TDG	not regulated
ICAO/IATA	not regulated
IMDG/IMO	not regulated

15. Regulatory information

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA	311/312	Hazard	Categories
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Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

International Regulations

Mexico - Grade

Slight risk, Grade 1

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

Revision Date:	2011-09-09
Reason for revision:	New Product

Disclaimer

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Prepared By

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Material Safety Data Sheet Sodium Bicarbonate

SDS # : 005574-A **Revision Date:** 2011-09-14 **Version** 1



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Sodium Bicarbonate
Synonyms	Sodium hydrogen carbonate; sodium acid carbonate; baking soda; bicarbonate of soda
Manufacturer FMC Corporation	Emergency telephone number
Agricultural Products Group	For leak, fire, spill or accident emergencies, call:
1735 Market Street	+1 800.424.9300 (CHEMTREC - U.S.A.)
Philadelphia, PA 19103	+1 703.527.3887 (CHEMTREC - Collect - All Other Countries),
General Information:	Medical Emergencies:
Phone: (215) 299-6000	(800) 331-3148 (U.S.A. & Canada)
E-Mail: msdsinfo@fmc.com	+1 (651) 632-6793 (All Other Countries - Collect)

2. Hazards identification	
Appearance	white crystalline powder
Physical State	Solid
<u>Odor</u>	odorless
Flammable properties	None known
Potential health effects Acute effects	
Eyes	May cause irritation.
Skin	Substance may cause slight skin irritation.
Inhalation	May cause irritation of respiratory tract.
Ingestion	Ingestion of large amounts may cause gastrointestinal discomfort including blockage, nausea, vomiting and diarrhea.
Chronic effects	No information available.

3. Composition/information on ingredients

Hazardous ingredients

Chemical Name	CAS-No	Weight %
Sodium Bicarbonate	144-55-8	99-100

4. First aid measures

	Version 1
Eye contact	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
Skin contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

5. Fire-fighting measures

Flammable properties	None known
Special hazards arising from the subst	ance or mixture
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	not applicable not applicable
Extinguishing media	
Suitable extinguishing media	Water spray, Dry chemical, Alcohol-resistant foam, Carbon dioxide (CO_2) .
Advice for fire-fighters	
Protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus and full protective gear.
NFPA	
Health Hazard 1	
Flammability 0	
Stability 0	

6. Accidental release measures

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Special Hazards

Personal precautions	Isolate and post spill area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.
Environmental precautions	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.
Other	For further clean-up instructions call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

7. Handling and storage

Handling	Do not contaminate water, food or feed by storage or disposal.
Storage	Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Store in original container only.

8. Exposure controls/personal protection

Exposure guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Occupational exposure controls	
Engineering measures	Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
Personal protective equipment	
Eye/face protection	When used according to use directions, no special eye protection is required. Handling during manufacture or in the event of an accidental release requires use of safety glasses or a face shield.
Respiratory protection	Avoid breathing vapor or mist.
Skin and body protection	Follow use directions. Avoid contact with skin and clothing.
Hand protection	Protective gloves
Hygiene measures	Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

9. Physical and chemical properties

Appearance	white crystalline
Color	white
Physical State	Solid
Odor	odorless
рН	8.3
Melting Point/Range	60 °C / 140
Freezing point	No information available
Boiling Point/Range	not applicable
Flash Point	not applicable
Evaporation rate	not applicable
Autoignition Temperature	not applicable
Flammable properties	None known
Vapor pressure	not applicable
Vapor density	No information available
Specific Gravity	2.2
Relative density	No information available
Water solubility	7.8%

Percent volatile	
Partition coefficient:	
Viscosity	
Oxidizing properties	

No information available not applicable No information available not applicable

10. Stability and reactivityStabilityStableStabilityStableConditions to avoidHeat, MoistureMaterials to avoidAcids, Monoammonium phosphate or a sodium-potassium alloyHazardous decomposition productsCarbon oxidesHazardous polymerizationHazardous polymerization does not occur

11. Toxicological information

Eye contact Skin contact	May cause irritation. Substance may cause slight skin irritation.
LD50 Oral	4220 mg/kg (rat)
Chronic Toxicity - Other Ingredient(s)	
Chronic Toxicity	No information available
Carcinogenicity	Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).

12. Ecological information

Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
	5	LC50 8250-9000 mg/L Lepomis macrochirus 96 h	EC50 2350 mg/L 48 h

Environmental Fate

Persistence and degradability No

No information available.

13. Disposal considerations

Waste disposal methods

If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.

Contaminated packaging

Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions

14. Transport information DOT not regulated TDG not regulated ICAO/IATA not regulated IMDG/IMO not regulated

15. Regulatory information

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories	
Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

International Regulations

Mexico - Grade

Slight risk, Grade 1

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

Revision Date: Reason for revision: 2011-09-14 New Product Disclaimer

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Material Safety Data Sheet VerifiTM CO2 Booster 1

SDS # : 006937-A **Revision Date:** 2011-09-20 **Version** 1



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.

1. PRODUCT AND COMPANY IDENTIFICATION

Product name

Verifi™ CO2 Booster 1

Manufacturer FMC Corporation

Agricultural Products Group 1735 Market Street Philadelphia, PA 19103 General Information: Phone: (215) 299-6000 E-Mail: msdsinfo@fmc.com

Emergency telephone number

For leak, fire, spill or accident emergencies, call: +1 800.424.9300 (CHEMTREC - U.S.A.) +1 703.527.3887 (CHEMTREC - Collect - All Other Countries), Medical Emergencies: (800) 331-3148 (U.S.A. & Canada) +1 (651) 632-6793 (All Other Countries - Collect)

2. Hazards identification	
Appearance	powder
Physical State	Solid
<u>Odor</u>	odorless
Flammable properties	Powdered material may form explosive dust-air mixtures.
Potential health effects Acute effects	
Eyes	Severely irritating to eyes.
Skin	May cause irritation.
Inhalation	May cause irritation of respiratory tract.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic effects	Repeated ingestion may cause tooth enamel erosion.

3. Composition/information on ingredients

Hazardous ingredients

Chemical Name	CAS-No	Weight %
Citric acid	77-92-9	95-100
Silica gel	63231-67-4	1-5
Amorphous silica gel	7631-86-9	1-5

4. First aid measures

	Version 1
Eye contact	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
Skin contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

5. Fire-fighting measures

Flammable properties	Powdered material may form explosive dust-air mixtures.	
Special hazards arising from the substance or mixture		
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	not applicable not applicable	
Extinguishing media		
Suitable extinguishing media	Water spray, Dry chemical, Alcohol-resistant foam, Carbon dioxide (CO ₂).	
Advice for fire-fighters		
Protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus and full protective gear.	
NFPA		
Health Hazard 2		
Flammability 1		

6. Accidental release measures

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Stability

Special Hazards

Personal precautions	Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.
Environmental precautions	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.
Methods for containment	Use a wet sweeping compound or water to prevent dust formation.
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.
Other	For further clean-up instructions call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

7. Handling and storage

Handling	Do not contaminate water, food or feed by storage or disposal.
Storage	Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Store in original container only.

8. Exposure controls/personal protection

Exposure guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico
Amorphous silica gel 7631-86-9			IDLH: 3000 mg/m ³ TWA: 6 mg/m ³	

Chemical Name	British Columbia	Quebec	Ontario TWAEV	Alberta
Silica gel		TWA: 6 mg/m ³		
63231-67-4				

Occupational exposure controls

Engineering measures	Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.	
Personal protective equipment		
Eye/face protection	When used according to use directions, no special eye protection is required. Handling during manufacture or in the event of an accidental release requires use of safety glasses or a face shield.	
Respiratory protection	Avoid breathing vapor or mist.	
Skin and body protection	Follow use directions. Avoid contact with skin and clothing.	
Hand protection	Protective gloves	
Hygiene measures	Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.	

9. Physical and chemical properties

Appearance	powder
Physical State	Solid
Odor	odorless
рН	No information available
Melting Point/Range	No information availableWhen used according to use directions, no special eye protection is required. Handlin
Freezing point	No information available
Boiling Point/Range	not applicable
Flash Point	not applicable
Evaporation rate	not applicable
Autoignition Temperature	not applicable
Flammable properties	Powdered material may form explosive dust-air mixtures.

system

Vapor pressure	not applicable
Vapor density	No information available
Relative density	No information available
Water solubility	No information available
Percent volatile	No information available
Partition coefficient:	not applicable
Viscosity	No information available
Oxidizing properties	not applicable

10. Stability and reactivity

Stability	Stable
Conditions to avoid	Heat, flames and sparks
Materials to avoid	Metal nitrates, Bases, Potassium tartrate, Copper alloys, copper, Aluminum, Aluminium alloys, Zinc, Zinc alloys
Hazardous decomposition products	Carbon oxides
Hazardous polymerization	Hazardous polymerization does not occur

11. Toxicological information

Eye contact Skin contact	2	Severely irritating to eyes. Substance may cause slight skin irritation.			
LD50 Oral	3000 mg	3000 mg/kg (Citric acid)			
<u>Chronic Toxicity - Other Ing</u>	redient(s)				
Chronic Toxicity	Repeated	Repeated ingestion may cause tooth enamel erosion.			
Carcinogenicity	Not recog	Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).			
Target Organ EffectsRespiratory system.					
Chemical Name	ACGIH	IARC	NTP	OSHA	NIOSH - Target Organs
Amorphous silica gel					eyes,respiratory

12. Ecological information

Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Citric acid		LC50 1516 mg/L Lepomis macrochirus 96 h		EC50 120 mg/L 72 h
Amorphous silica gel		LC50 5000 mg/L Brachydanio rerio 96 h		EC50 7600 mg/L 48 h

Environmental Fate

Chemical Name Citric acid	log Pow -1.72		
13. Disposal considerations			
Waste disposal methods	If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.		
Contaminated packaging	Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions		
14. Transport information			
DOT	not regulated		
TDG	not regulated		
ICAO/IATA	not regulated		
IMDG/IMO	not regulated		

15. Regulatory information

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories	
Acute Health Hazard	yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

International Regulations

Mexico - Grade

Moderate risk, Grade 2

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.



D2B Toxic materials

16. Other information

Revision Date:2011-09-20Reason for revision:New Product

Disclaimer

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Material Safety Data Sheet Verifi™ Lure 1

SDS # : 6944-A **Revision Date:** 2011-09-20 **Version** 1



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.

1. PRODUCT AND COMPANY IDENTIFICATION

Product name

Verifi™ Lure 1

Manufacturer FMC Corporation Agricultural Products Group 1735 Market Street Philadelphia, PA 19103 General Information: Phone: (215) 299-6000 E-Mail: msdsinfo@fmc.com

Emergency telephone number

For leak, fire, spill or accident emergencies, call: +1 800.424.9300 (CHEMTREC - U.S.A.) +1 703.527.3887 (CHEMTREC - Collect - All Other Countries), Medical Emergencies: (800) 331-3148 (U.S.A. & Canada) +1 (651) 632-6793 (All Other Countries - Collect)

2. Hazards identification Appearance	Clear, colorless liquid
Physical State	liquid
<u>Odor</u>	Gasoline-like
Flammable properties	Flammable liquid
Potential health effects Acute effects	
Eyes	Irritating to eyes.
Skin	Irritating to skin.
Inhalation	May be harmful if inhaled. May cause irritation of respiratory tract. May cause drowsiness and dizziness.
Ingestion	Potential for aspiration if swallowed. May cause lung damage if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic effects	Prolonged skin contact may defat the skin and produce dermatitis. May cause adverse kidney effects. May cause adverse liver effects.

3. Composition/information on ingredients

Hazardous ingredients

Chemical Name	CAS-No	Weight %
n-Nonane	111-84-2	95-100
Trans-2-octenal	2548-87-0	1-5

4. First aid measures

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Eye contact	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
Skin contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

5. Fire-fighting measures

Flammable properties	Flammable liquid
Flash Point Method	31 °C / 87.8 °F closed cup
Special hazards arising from the substa	nce or mixture
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	not applicable not applicable
Extinguishing media	
Suitable extinguishing media	Water spray, Dry chemical, Alcohol-resistant foam, Carbon dioxide (CO ₂).
Advice for fire-fighters	
Protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus and full protective gear.
NFPAHealth Hazard2	

Health Hazard	2
Flammability	3
Stability	0
Special Hazards	-

6. Accidental release measures

Personal precautions	Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.
Environmental precautions	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.
Methods for containment	Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

Other For further clean-up instructions call FMC Emergency Hotline number listed in Section 1 and Company Identification" above.	
7. Handling and storage	
Handling	Do not contaminate water, food or feed by storage or disposal.
Storage	Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Store in original container only.

8. Exposure controls/personal protection

Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico
n-Nonane 111-84-2	TWA: 200 ppm		TWA: 200 ppm TWA: 1050 mg/m ³	Mexico: TWA 200 ppm Mexico: TWA 1050 mg/m ³ Mexico: STEL 250 ppm Mexico: STEL 1300 mg/m ³

Chemical Name	British Columbia	Quebec	Ontario TWAEV	Alberta
n-Nonane	TWA: 200 ppm	TWA: 200 ppm TWA: 1050	TWA: 200 ppm	TWA: 200 ppm TWA: 1050
111-84-2		mg/m ³		mg/m ³

Occupational exposure controls

Engineering measures	Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.	
Personal protective equipment		
Eye/face protection	When used according to use directions, no special eye protection is required. Handling during manufacture or in the event of an accidental release requires use of safety glasses or a face shield.	
Respiratory protection	Avoid breathing vapor or mist.	
Skin and body protection	Follow use directions. Avoid contact with skin and clothing.	
Hand protection	Protective gloves	
Hygiene measures	Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.	

9. Physical and chemical properties

Appearance	Clear, colorless liquid
Physical State	liquid
Odor	Gasoline-like
рН	No information available
Melting Point/Range	No information available
Freezing point	No information availableE
Boiling Point/Range	not applicable

Flash Point 31 °C / 87.8 °F closed cup **Evaporation rate** not applicable **Autoignition Temperature** not applicable Flammable liquid **Flammable properties** not applicable Vapor pressure Vapor density No information available **Relative density** No information available Water solubility No information available Percent volatile No information available **Partition coefficient:** not applicable No information available Viscosity not applicable **Oxidizing properties**

10. Stability and reactivity

Stability	Stable
Conditions to avoid	Keep away from open flames, hot surfaces and sources of ignition.
Materials to avoid	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides
Hazardous polymerization	Hazardous polymerization does not occur

11. Toxicological information

Eye contact	Expected to be an irritant based on components				
Skin contact	Expected to be an irritant based on components				
Ingestion	Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.				
	Ingestion may cause gastrointe	estinal irritation, nausea, v	omiting and diarrhea	1.	
Inhalation	May cause irritation of respira	tory tract. May cause drov	wsiness and dizzines	S.	
LC50 Inhalation:	3200 ppm 4 hr (rat) 17000 r	3200 ppm 4 hr (rat) 17000 mg/m ³ (4-hr) (rat)			
Chronic Toxicity - Other Ingredient(s	5)				
	<u> </u>				
Chronic Toxicity	Prolonged skin contact may de	efat the skin and produce of	dermatitis May caus	e adverse kidnev effects	
Chrome Powerty	Prolonged skin contact may defat the skin and produce dermatitis. May cause adverse kidney effects. May cause adverse liver effects.				
		way cause adverse river effects.			
Carcinogenicity	Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).				
Cureinogenieity	Not recognized as careinogenie by Rescarein Agencies (IARC, 1911, 0511A, Recont).				
Target Organ Effects Skin, Kidney, Liver, Blood, Respiratory system.					
Target Organ Enerts Skin, Kluncy, Elver, Blood, Respiratory system.					
Chamical Nama A	CGIH IARC	NTP	OSHA	NIOSIL Target	
Chemical Name A		NIP	USHA	NIOSH - Target	
				Organs	
n-Nonane				eyes,CNS,respiratory	

12. Ecological information

Ecotoxicity

Ecotoxicity effects

No information available.

system,skin

Environmental Fate

Chemical Name	log Pow
n-Nonane	3.31-3.92
13. Disposal consideration	S
Waste disposal methods	If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.
Contaminated packaging	Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions
14. Transport information	
Note DOT	Each lure containes 1.2 mL Nonanes solution. Ship as Limited Quantity per 49 CFR 173.1506. Shipping papers exempt per 49 CFR 172.200b3. Carton marks include Limited Quantity mark and orientation arrrows.
Proper shipping name	Nonanes solution
Hazard Class	3
UN/ID No	UN1920
Packing group	III
TDG Proper shipping name	Ship as Limited Quantity. Carton marks include Limited Quantity and Class 9 Diamond. Nonanes solution
Hazard Class	3
UN/ID No	UN1920
Packing group	III
ICAO/IATA	Carton Marks: Limited quantity air, orientation arrows, Class 9 Diamond, Consumer Commodity, ID8000
UN/ID No	ID8000
Proper shipping name	Consumer Commodity
Hazard Class	3
Packing group	III
Limited quantity	10 L
IMDG/IMO Proper shipping name Hazard Class	Ship as Limited Quantity. Carton marks include Limited Quantity mark and orientation arrows. Nonanes Solution 3
UN/ID No	UN1920
Packing group	III
EmS No.	F-E, S-E

15. Regulatory information

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories	
Acute Health Hazard	yes
Chronic Health Hazard	No
Fire Hazard	yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

TSCA Inventory (United States of America)

Chemical Name		U.S TSCA (Toxic Substances Control Act) - Section 5(a)(2) - Chemicals with Significant New Use Rules (SNURs)
n-Nonane	40 CFR 799.5115	

Chemical Name	U.S TSCA (Toxic Substances Control Act) - Section 8(a) - Chemical-Specific Reporting and Recordkeeping
n-Nonane	PAIR: 01/26/1994

Chemical Name	U.S TSCA (Toxic Substances Control Act) - Section 8(d) - 716.120(a) - Health and Safety Reporting - List of Substances
n-Nonane	01/26/1994

International Regulations

Mexico - Grade

Serious risk, Grade 3

Chemical Name	Carcinogen Status	Mexico
n-Nonane		Mexico: TWA 200 ppm Mexico: TWA 1050 mg/m ³
		Mexico: STEL 250 ppm Mexico: STEL 1300 mg/m ³

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 B2 Flammable liquid

B2 Flammable liquid D2B Toxic materials



16. Other information

Revision Date: Reason for revision: 2011-09-28 No information available Disclaimer

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Prepared By

FMC Corporation

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Material Safety Data Sheet Verifi™ Lure 2

SDS # : 6945-A **Revision Date:** 2011-09-20 **Version** 1



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.

1. PRODUCT AND COMPANY IDENTIFICATION

Product name

Verifi™ Lure 2

Manufacturer FMC Corporation Agricultural Products Group 1735 Market Street Philadelphia, PA 19103 General Information: Phone: (215) 299-6000 E-Mail: msdsinfo@fmc.com

Emergency telephone number

For leak, fire, spill or accident emergencies, call: +1 800.424.9300 (CHEMTREC - U.S.A.) +1 703.527.3887 (CHEMTREC - Collect - All Other Countries), Medical Emergencies: (800) 331-3148 (U.S.A. & Canada) +1 (651) 632-6793 (All Other Countries - Collect)

2. Hazards identification	Clear, colorless liquid
Physical State	liquid
<u>Odor</u>	Gasoline-like
Flammable properties	Flammable liquid
Potential health effects Acute effects	
Eyes	Irritating to eyes.
Skin	Irritating to skin.
Inhalation	May be harmful if inhaled. May cause irritation of respiratory tract. May cause drowsiness and dizziness.
Ingestion	Potential for aspiration if swallowed. May cause lung damage if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic effects	Prolonged skin contact may defat the skin and produce dermatitis. May cause adverse kidney effects. May cause adverse liver effects.

3. Composition/information on ingredients

Hazardous ingredients

Chemical Name	CAS-No	Weight %
n-Nonane	111-84-2	>95
Butyric acid	107-92-6	<0.1

4. First aid measures

Verifi™ Lure 2	MSDS #: 6945-A Revision Date: 2011-09-20 Version 1
Eye contact	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
Skin contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
5. Fire-fighting measures	
Flammable properties	Flammable liquid
Flash Point	31 °C / 87.8 °F

Special hazards arising from the substance or mixture

Sensitivity to Mechanical Impact	not applicable
Sensitivity to Static Discharge	not applicable

Extinguishing media

Suitable extinguishing media Water spray, Dry chemical, Alcohol-resistant foam, Carbon dioxide (CO₂).

closed cup

Advice for fire-fighters

Protective equipment and precautions As in any fire, wear self-contained breathing apparatus and full protective gear. **for firefighters**

NFPA

Method

Health Hazard	2
Flammability	3
Stability	0
Special Hazards	-

6. Accidental release measures

Personal precautions	Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.
Environmental precautions	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.
Methods for containment	Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

Other	For further clean-up instructions call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
7. Handling and storage	
Handling	Do not contaminate water, food or feed by storage or disposal.
Storage	Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Store in original container only.

8. Exposure controls/personal protection

Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico
n-Nonane 111-84-2	TWA: 200 ppm		TWA: 200 ppm TWA: 1050 mg/m ³	Mexico: TWA 200 ppm Mexico: TWA 1050 mg/m ³ Mexico: STEL 250 ppm Mexico: STEL 1300 mg/m ³

Chemical Name	British Columbia	Quebec	Ontario TWAEV	Alberta
n-Nonane	TWA: 200 ppm	TWA: 200 ppm TWA: 1050	TWA: 200 ppm	TWA: 200 ppm TWA: 1050
111-84-2		mg/m ³		mg/m ³

Occupational exposure controls

Engineering measures	Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.	
Personal protective equipment		
Eye/face protection	When used according to use directions, no special eye protection is required. Handling during manufacture or in the event of an accidental release requires use of safety glasses or a face shield.	
Respiratory protection	Avoid breathing vapor or mist.	
Skin and body protection	Follow use directions. Avoid contact with skin and clothing.	
Hand protection	Protective gloves	
Hygiene measures	Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.	

9. Physical and chemical properties

Appearance	Clear, colorless liquid	
Physical State	liquid	
Odor	Gasoline-like	
рН	No information available	
Melting Point/Range	Point/Range No information available	
Freezing point	No information availableE	
Boiling Point/Range	not applicable	

Flash Point 31 °C / 87.8 °F closed cup **Evaporation rate** not applicable **Autoignition Temperature** not applicable Flammable liquid **Flammable properties** not applicable Vapor pressure Vapor density No information available **Relative density** No information available Water solubility No information available Percent volatile No information available **Partition coefficient:** not applicable Viscosity No information available not applicable **Oxidizing properties**

10. Stability and reactivity

Stability	Stable
Conditions to avoid	Keep away from open flames, hot surfaces and sources of ignition.
Materials to avoid	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides
Hazardous polymerization	Hazardous polymerization does not occur

11. Toxicological information

Eye contact	Expected to be an irritant based on components			
Skin contact	Expected to be an irritant base			
Ingestion	Potential for aspiration if swal	lowed. Aspiration may ca	use pulmonary edem	a and pneumonitis.
	Ingestion may cause gastrointe	estinal irritation, nausea, v	omiting and diarrhea	1.
Inhalation	May cause irritation of respira	tory tract. May cause drov	wsiness and dizzines	S.
LC50 Inhalation:	3200 ppm 4 hr (rat) 17000 r	mg/m^3 (4-hr) (rat)		
Chronic Toxicity - Other Ingredient(s	5)			
	<u> </u>			
Chronic Toxicity	Prolonged skin contact may de	efat the skin and produce of	dermatitis May caus	e adverse kidnev effects
Chrome Powerty	May cause adverse liver effects.			
Carcinogenicity	Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).			
Cureinogenieity	Not recognized as carentogenic by Resource regeneres (Irrice, 1011, 00111, reconf).			
Target Organ Effects	Farget Organ Effects Skin, Kidney, Liver, Blood, Respiratory system.			
rarget Organ Enects	okin, Klaney, Liver, Dioba, Respiratory system.			
Chamical Nama A	CGIH IARC	NTP	OSHA	NIOSIL Target
Chemical Name A		NIP	USHA	NIOSH - Target
				Organs
n-Nonane	eyes,CNS,respiratory			

12. Ecological information

Ecotoxicity

Ecotoxicity effects

No information available.

system,skin

Chemical Name	Toxicity to algae	Toxicity to fish	v 8	Toxicity to daphnia and other aquatic invertebrates
5	46.7 mg/L EC50 72 h (Desmodesmus subspicatus)		EC50 = 16.9 mg/L 5 min EC50 = 16.9 mg/L 15 min EC50 = 17.2 mg/L 25 min EC50 = 10.1 mg/L 15 min	C C

Environmental Fate

Chemical Name	log Pow
n-Nonane	3.31-3.92
Butyric acid	0.79
13. Disposal consideration	18
Waste disposal methods	If these wastes cannot be disposed of by use according to label instructions, contact appropriate
······································	disposal authorities for guidance.
Contaminated packaging	Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions
14. Transport information	n
Note	Each lure containes 1.2 mL Nonanes solution.
DOT	Ship as Limited Quantitiy per 49 CFR 173.1506. Shipping papers exempt per 49 CFR 172.200b3.
	Carton marks include Limited Quantity mark and orientation arrrows.
Proper shipping name	Nonanes solution
Hazard Class	3
UN/ID No	UN1920
Packing group	III
TDG	Ship as Limited Quantity. Carton marks include Limited Quantity and Class 9 Diamond.
Proper shipping name	Nonanes solution
Hazard Class	3
UN/ID No	UN1920
Packing group	III
ICAO/IATA	Carton Marks: Limited quantity air, orientation arrows, Class 9 Diamond, Consumer Commodity,
UNI/ID N-	ID8000
UN/ID No	ID8000 Consumer Commedity
Proper shipping name	Consumer Commodity
Hazard Class	3 111
Packing group	
Limited quantity	10 L
IMDG/IMO	Ship as Limited Quantity. Carton marks include Limited Quantity mark and orientation arrows.
Proper shipping name	Nonanes Solution
Hazard Class	3
UN/ID No	UN1920
Packing group	III
EmS No.	F-E, S-E

15. Regulatory information

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories	
Acute Health Hazard	yes
Chronic Health Hazard	No
Fire Hazard	yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Butyric acid	5000 lb	

TSCA Inventory (United States of America)

Chemical Name	U.S TSCA (Toxic Substances Control Act)	U.S TSCA (Toxic Substances Control Act)
	- Section 4 - Chemical Test Rules (40 CFR	- Section 5(a)(2) - Chemicals with Significant
	799)	New Use Rules (SNURs)
n-Nonane	40 CFR 799.5115	

Chemical Name	U.S TSCA (Toxic Substances Control Act) - Section 8(a) - Chemical-Specific Reporting and Recordkeeping
n-Nonane	PAIR: 01/26/1994

Chemical Name	U.S TSCA (Toxic Substances Control Act) - Section 8(d) - 716.120(a) - Health and Safety Reporting - List of Substances
n-Nonane	01/26/1994

International Regulations

Mexico - Grade

Serious risk, Grade 3

Chemical Name	Carcinogen Status	Mexico
n-Nonane		Mexico: TWA 200 ppm Mexico: TWA 1050 mg/m ³ Mexico: STEL 250 ppm Mexico: STEL 1300 mg/m ³

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

B2 Flammable liquid D2B Toxic materials



16. Other information

Revision Date: Reason for revision: 2011-09-28 No information available

Disclaimer

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