Material Safety Data Sheet VerifiTM Bed Bug Detector

SDS #: 6945-A

Revision Date: 2012-04-11

Version 2



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 Verifi™ Bed Bug Detector

Formula 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

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) E-Mail: msdsinfo@fmc.com

Revision Date: 2012-04-11 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.

SkinSubstance may cause slight skin irritation.InhalationMay 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

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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.

Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of Ingestion

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 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 (CO₂).

Advice for fire-fighters

for firefighters

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

NFPA

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.

Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, **Environmental precautions**

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.

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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 guidelinesThis 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

ColorcolorlessPhysical StateSolidOdorodorless

pH 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 applicable
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

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Water solubility 167g/100mL

Percent volatile No information available

Partition coefficient: not applicable

Viscosity No information available

Oxidizing properties 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 Product dust may cause mechanical eye irritation. **Skin contact** Substance may cause slight skin irritation.

LD50 Oral 8100 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
Magnesium Chloride		LC50 4210 mg/L Gambusia affinis 96 h LC50 1970-3880		EC50 1400 mg/L 24 h EC50 140 mg/L 48 h
		mg/L Pimephales promelas 96 h		

Environmental Fate

Persistence and degradability No information available.

13. Disposal considerations

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disposal authorities for guidance.

Contaminated packagingContainers 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

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

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16. Other information

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

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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 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 white crystalline powder

Physical State Solid

Odor odorless

Flammable properties None known

Potential health effects

Acute effects

Eyes May cause irritation.

SkinSubstance may cause slight skin irritation.InhalationMay cause irritation of respiratory tract.

Ingestion Ingestion of large amounts may cause gastrointestinal discomfort including blockage, nausea,

vomiting and diarrhea.

Chronic effectsNo 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

SDS #: 005574-A **Sodium Bicarbonate**

Revision Date: 2011-09-14

Version 1

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 substance or mixture

Sensitivity to Mechanical Impact Sensitivity to Static Discharge

not applicable not applicable

Extinguishing media

Eye contact

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

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 0 **Flammability 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.

Revision Date: 2011-09-14

Version 1

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 guidelinesThis 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
pH 8.3
Melting Point/Range 60 °C / 140

Freezing point No information available

Boiling Point/Rangenot applicableFlash Pointnot applicableEvaporation ratenot applicableAutoignition Temperaturenot applicableFlammable propertiesNone knownVapor pressurenot applicable

Vapor density No information available

Specific Gravity 2.2

Relative density No information available

Water solubility 7.8%

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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, Moisture

Materials to avoid Acids, Monoammonium phosphate or a sodium-potassium alloy

Hazardous decomposition products Carbon oxides

Hazardous polymerization Hazardous polymerization does not occur

11. Toxicological information

Eve contact May cause irritation.

Skin contact 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
Sodium Bicarbonate		LC50 8250-9000 mg/L Lepomis macrochirus 96 h		EC50 2350 mg/L 48 h

Environmental Fate

Persistence and degradability No information available.

13. Disposal considerations

disposal authorities for guidance.

Revision Date: 2011-09-14

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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

Chronic Health Hazard

No
Fire Hazard

Sudden Release of Pressure Hazard

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: 2011-09-14 **Reason for revision:** New Product

Revision Date: 2011-09-14

Version 1

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Material Safety Data Sheet Verifi™ CO2 Booster 1

SDS #: 006937-A **Revision Date:** 2012-03-09

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 VerifiTM CO2 Booster 1

Manufacturer 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

<u>Appearance</u> powder

Physical state solid

Odor odorless

Flammable properties Powdered material may form explosive dust-air mixtures.

Potential health effects

Acute effects

Eyes Severely irritating (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	5949-29-1	95-100
Amorphous silica gel	63231-67-4	1-5
Silica gel	112945-52-5	1-5

4. First aid measures

VerifiTM CO2 Booster 1 MSDS #: 006937-A

Revision Date: 2012-03-09

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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.

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of Ingestion

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.

Sensitivity to Mechanical Impact Sensitivity to Static Discharge

not applicable not applicable

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

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 **Stability** 0 **Special Hazards**

6. Accidental release measures

Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves Personal precautions

and eye/face protection. For personal protection see section 8.

Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, **Environmental precautions**

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.

VerifiTM CO2 Booster 1 MSDS #: 006937-A

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8. Exposure controls/personal protection

Exposure guidelines

Chemical Name	British Columbia	Quebec	Ontario TWAEV	Alberta
Amorphous silica gel 63231-67-4		TWA: 6 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

General Information If the product is used in mixtures, it is recommended that you contact the appropriate protective

equipment suppliers, These recommendations apply to the product as supplied

Respiratory protection For dust, splash, mist or spray exposures wear a filtering mask.

Eye/face protection For dust, splash, mist or spray exposure, wear chemical protective goggles or a face-shield

Skin and body protection Wear long-sleeved shirt, long pants, socks, shoes, and gloves.

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

AppearancepowderPhysical statesolidOdorodorless

pH No information available.
 Melting Point/Range No information available.
 Freezing point No information available

Boiling Point/Rangenot applicableFlash Pointnot applicableEvaporation ratenot applicableAutoignition Temperaturenot applicable

Flammable properties Powdered material may form explosive dust-air mixtures.

Vapor pressureNo information availableVapor densityNo information availableWater solubilityNo information availablePercent volatileNo information available

Partition coefficient: not applicable

Viscosity No information available

Oxidizing properties not applicable

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Revision Date: 2012-03-09

Version 1

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 Severely irritating (eyes).

Skin contact Substance may cause skin irritation.

LD50 Oral 3000 mg/kg (Citric acid)

Chronic Toxicity - Other Ingredient(s)

Chronic Toxicity Repeated ingestion may cause tooth enamel erosion.

Carcinogenicity Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).

Target Organ Effects Respiratory system.

12. Ecological information

Ecotoxicity

Environmental Fate

Chemical Name	log Pow
Citric Acid	-1.72

13. Disposal considerations

disposal authorities for guidance.

Contaminated packagingContainers 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

Verifi™ CO2 Booster 1 MSDS #: 006937-A

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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.

WHMIS Hazard Class D2B Toxic materials



16. Other information

Revision Date: 2012-03-09

Reason for revision:No information available.

Verifi™ CO2 Booster 1 MSDS #: 006937-A

Revision Date: 2012-03-09

Version 1

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End of Material Safety Data Sheet

Material Safety Data Sheet VerifiTM 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 VerifiTM Lure 1

Manufacturer 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 Clear, colorless liquid

Physical State liquid

Odor Gasoline-like

Flammable properties Flammable liquid

Potential health effects

Acute effects

EyesIrritating to eyes.SkinIrritating to skin.

Inhalation 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 31 °C / 87.8 °F Method closed cup

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 (CO₂).

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 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 containmentDike 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.

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Revision Date: 2011-09-20

Version 1

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	TWA: 200 ppm		TWA: 200 ppm TWA: 1050	Mexico: TWA 200 ppm
111-84-2			mg/m³	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/m³		mg/m³

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 measuresClean 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

pHNo information availableMelting Point/RangeNo information availableFreezing pointNo information available

Boiling Point/Range not applicable

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Version 1

Flash Point 31 °C / 87.8 °F closed cup

Evaporation ratenot applicableAutoignition Temperaturenot applicableFlammable propertiesFlammable liquidVapor pressurenot applicable

Vapor densityNo information availableRelative densityNo information availableWater solubilityNo information availablePercent volatileNo information available

Partition coefficient: not applicable

Viscosity No information available

Oxidizing properties not applicable

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 gastrointestinal irritation, nausea, vomiting and diarrhea. May cause irritation of respiratory tract. May cause drowsiness and dizziness.

LC50 Inhalation: 3200 ppm 4 hr (rat) 17000 mg/m³ (4-hr) (rat)

Chronic Toxicity - Other Ingredient(s)

Chronic Toxicity Prolonged skin contact may defat the skin and produce dermatitis. May cause adverse kidney effects.

May cause adverse liver effects.

Carcinogenicity Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).

Target Organ Effects Skin, Kidney, Liver, Blood, Respiratory system.

Chemical Name	ACGIH	IARC	NTP	OSHA	NIOSH - Target Organs
n-Nonane					eyes,CNS,respiratory system,skin

12. Ecological information

Ecotoxicity

Inhalation

Ecotoxicity effectsNo information available.

VerifiTM Lure 1 MSDS #: 6944-A

Revision Date: 2011-09-28

Version 1

Environmental Fate

Chemical Name	log Pow
n-Nonane	3.31-3.92

13. Disposal considerations

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 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,

ID8000

UN/ID No ID8000

Proper shipping name Consumer Commodity

Hazard Class3Packing groupIIILimited quantity10 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.

Verifi™ Lure 1 MSDS #: 6944-A

Revision Date: 2011-09-28

Version 1

SARA 311/312 Hazard Categories

Acute Health HazardyesChronic Health HazardNoFire HazardyesSudden Release of Pressure HazardNoReactive HazardNo

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	`	- 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: 2011-09-28

Reason for revision:No information available

VerifiTM Lure 1 MSDS #: 6944-A

Revision Date: 2011-09-28

Version 1

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FMC Corporation

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Material Safety Data Sheet VerifiTM Lure 2

SDS #: 6936-A

Revision Date: 2012-04-11

Version 2



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 VerifiTM Lure 2

Manufacturer 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 Clear, colorless liquid

Physical State liquid

Odor Gasoline-like

Flammable properties Flammable liquid

Potential health effects

Acute effects

Eyes Irritating to eyes.
Skin Irritating to skin.

Inhalation 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

VerifiTM Lure 2 MSDS #: 6936-A

Revision Date: 2012-04-11

Version 2

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 Method closed cup

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).

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 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 containmentDike 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.

Verifi™ Lure 2 MSDS #: 6936-A

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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	TWA: 200 ppm		TWA: 200 ppm TWA: 1050	Mexico: TWA 200 ppm
111-84-2			mg/m³	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/m³		mg/m³

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 measuresClean 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 StateliquidOdorGasoline-like

pHNo information availableMelting Point/RangeNo information availableFreezing pointNo information available

Boiling Point/Range not applicable

VerifiTM Lure 2 MSDS #: 6936-A

Revision Date: 2012-04-11

Version 2

Flash Point 31 °C / 87.8 °F closed cup

Evaporation ratenot applicableAutoignition Temperaturenot applicableFlammable propertiesFlammable liquidVapor pressurenot applicable

Vapor densityNo information availableRelative densityNo information availableWater solubilityNo information availablePercent volatileNo information available

Partition coefficient: not applicable

Viscosity No information available

Oxidizing properties not applicable

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 gastrointestinal irritation, nausea, vomiting and diarrhea. May cause irritation of respiratory tract. May cause drowsiness and dizziness.

LC50 Inhalation: 3200 ppm 4 hr (rat) 17000 mg/m³ (4-hr) (rat)

Chronic Toxicity - Other Ingredient(s)

Chronic Toxicity Prolonged skin contact may defat the skin and produce dermatitis. May cause adverse kidney effects.

May cause adverse liver effects.

Carcinogenicity Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).

Target Organ Effects Skin, Kidney, Liver, Blood, Respiratory system.

Chemical Name	ACGIH	IARC	NTP	OSHA	NIOSH - Target Organs
n-Nonane					eyes,CNS,respiratory system,skin

12. Ecological information

Ecotoxicity

Inhalation

Ecotoxicity effects No information available.

Verifi™ Lure 2 MSDS #: 6936-A

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Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other
				aquatic invertebrates
Butyric acid	46.7 mg/L EC50 72 h		EC50 = 16.9 mg/L 5 min EC50	EC50 61.7 mg/L 24 h
	(Desmodesmus subspicatus)		= 16.9 mg/L 15 min EC50 =	_
			17.2 mg/L 25 min EC50 = 10.1	
			mg/L 15 min	

Environmental Fate

Chemical Name	log Pow
n-Nonane	3.31-3.92
Butyric acid	0.79

13. Disposal considerations

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 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,

ID8000

UN/ID No ID8000

Proper shipping name Consumer Commodity

Hazard Class3Packing groupIIILimited quantity10 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

VerifiTM Lure 2 MSDS #: 6936-A

Revision Date: 2012-04-11

Version 2

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

VerifiTM Lure 2 MSDS #: 6936-A

Revision Date: 2012-04-11

Version 2

Revision Date: 2012-04-12

Reason for revision:No information available

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