



SAFETY DATA SHEET

Product: MARC 142 STOMP INSECTICIDE

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 142 STOMP INSECTICIDE

SDS DATE: 05/15/15

SUPPLIER: Mid-American Research Chemical Corp. ADDRESS: P. O. Box 927 Columbus, NE 68602-0927
PHONE: 402-564-7104 FAX: 403-563-1290
EMERGENCY PHONE: InfoTrac 1-800-535-5053
E-MAIL: marc@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Insecticide.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Causes skin irritation. Causes eye irritation.

SIGNAL WORD AND PRECAUTIONARY STATEMENTS: **DANGER:** Extremely flammable aerosol. May be fatal if swallowed and enters airways. May cause an allergic skin reaction.

PRECAUTIONARY STATEMENTS: Keep away from heat/sparks/open flames/hot surfaces – No smoking. Do not spray on an open flame or other ignition source. Pressurized container: do not pierce or burn, even after use. Do not breathe gas. Wash thoroughly after handling. Avoid release to the environment. See Section 4 FIRST-AID MEASURES.



POTENTIAL HEALTH EFFECTS: See Section 11 for more information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

NAME	CAS NUMBER	% WT.	CLASSIFICATION (GHS-US)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS NO. 64742-47-8	90 - 100	Flam. Liq. 4, H227 Asp. Tox. 1, H304
Carbon Dioxide, liquefied, under pressure	CAS NO. 124-38-9	2.5 - 10	Not classified
Permethrin (ISO), m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	CAS NO. 52645-53-1	0.1 - 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317
Piperonyl Butoxide	CAS NO. 51-03-6	0.1 - 1	Not classified
Tetramethrin	CAS NO. 7696-12-0	0.1 - 1	Not classified

Specific percentages and ingredients may be claimed as a trade secret.



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SECTION 4: FIRST AID MEASURES

FIRST-AID MEASURES GENERAL: Take off immediately all contaminated clothing. If you feel unwell, seek medical advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this sheet where possible. Keep victim warm and rested. Wash contaminated clothing before reuse.

EYES: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you are concerned, irritation develops and persists, or if you feel unwell.

SKIN: Remove/take off immediately all contaminated clothing. Get immediate medical advice/attention. For minor skin contact, avoid spreading material on unaffected skin. Wash contaminated clothing before reuse.

INGESTION: Never give anything by mouth to an unconscious person. Rinse mouth.

INHALATION: Remove person to fresh air and keep at rest in a position comfortable for breathing. Artificial respiration and/or oxygen if necessary. Do not apply mouth-to-mouth resuscitation. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediately consult a doctor/medical service.

MOST IMPORTANT SYMPTOMS/ EFFECTS, ACUTE & DELAYED:

INHALATION: Prolonged exposure: danger of damage to health through inhalation.
SKIN: Dermatitis. Skin rash/inflammation. May cause an allergic skin reaction.
EYE: Direct contact with the eyes is likely irritating.
INGESTION: Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Risk of lung edema.

INDICATION OF IMMEDIATE MEDICAL

ATTENTION & SPECIAL TREATMENT NEEDED: Treat symptomatically. Keep watching the victim. Symptoms may be delayed.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Powder. Alcohol-resistant foam. Water fog. Carbon dioxide.

UNSUITABLE EXTINGUISHING MEDIA: Do not use water jet as an extinguisher, as this may cause the fire to spread.

FIRE-FIGHTING EQUIPMENT/ INSTRUCTIONS:

In case of fire and/or explosion, do not breathe fumes. Move containers away from the fire area if can be done without risk. NEVER direct water jet on liquid. Use water spray or fog for cooling exposed containers. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Some of these materials, if spilled, may evaporate leaving a flammable residue.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

HAZARDOUS DECOMPOSITION PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES/ PROTECTIVE EQUIPMENT:

Evacuate unnecessary personnel. Consider initial downwind evacuation for at least 500 meters (1/3 mile). Stay upwind/keep distance from source. Gas is denser than air. May accumulate in low areas e.g. close to the ground. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.

Do not enter without appropriate protective equipment. Do not breathe gas/vapor. DO NOT touch spilled material. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Ventilate the area thoroughly, especially low lying areas (basements, work pits, etc.). Advise local authorities if considered necessary. (See Section 8.)



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METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Eliminate every possible source of ignition. NO open flames, NO sparks, and NO smoking. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Form with air vapors (heavier than air) who stay on the floor. Gas is denser than air. May accumulate in low areas e.g. close to the ground. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop leak if safe to do so. Turn leaking containers leak-side up to prevent the escape of liquid. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to disperse the vapors. Isolate area until gas has dispersed.

Following product recovery, flush area with water. Clean thoroughly. Dispose as hazardous waste. Refer to Section 13.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Do not contaminate water with the product or its container. Do not allow to enter drains or water courses.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Vapors may form explosive mixture with air. Exclude sources of heat, sparks and open flame. Pressurized container. Do not pierce or burn even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while handling product. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use explosion-free electrical equipment with earth. Do not re-use empty containers. Obtain special instructions before use. Reduce/avoid exposure and/or contact. Do not breathe gas/vapor/aerosol. Avoid contact with skin, eyes and clothing. Avoid prolonged and repeated contact with skin. Use only outdoors or in a well-ventilated area. Wear recommended personal protective equipment as required. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

OTHER PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN! CONTENTS UNDER PRESSURE!

STORAGE:

Store locked up in a cool place. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerator or crush. Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. No smoking. Proper grounding procedures to avoid static electricity should be followed. Store away from incompatible materials (see Section 10 of SDS). Aerosol 3.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CARBON DIOXIDE, LIQUEFIED, UNDER PRESSURE (124-38-9)

ACGIH	ACGIH TWA (ppm)	5000 ppm (Carbon dioxide: USA; Time-weighted average exposure limit 8 h; TLV – Adopted Value)
ACGIH	ACGIH STEL (ppm)	30000 ppm (Carbon dioxide; USA; Short time value; TLV – Adopted Value)

APPROPRIATE ENGINEERING CONTROLS/

VENTILATION:

Provide sufficient air exchange and/or exhaust. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas.

RESPIRATORY PROTECTION:

If permissible levels are exceeded use NIOSH mechanical filter/organic vapor cartridge or an air-supplied respirator.

EYE/FACE PROTECTION:

Avoid contact with eyes. Wear face shield.

SKIN PROTECTION/PROTECTIVE GLOVES:

In case of repeated or prolonged contact wear appropriate gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Avoid contact with skin. Wear chemical protective equipment that is specifically recommended by the manufacturer. Use of an impervious apron is recommended. It may provide little or no thermal protection.

THERMAL HAZARD PROTECTION:

Use appropriate personal protective equipment when risk assessment indicates this is necessary.



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WORK HYGIENIC PRACTICES: When using, do not smoke. Avoid contact with eyes and skin. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking and when leaving work. Contaminated work clothing should not be allowed out of workplace. Take off contaminated clothing and wash before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:
PHYSICAL STATE: Liquid.
FORM: Aerosol.
COLOR: N/A
ODOR: Vanilla.
ODOR THRESHOLD: No data available.
pH: No data available.
MELTING/FREEZING POINT: No data available.
INITIAL BOILING POINT/RANGE: No data available.
FLASH POINT/METHOD USED: 201.2°F estimated
RELATIVE EVAPORATION RATE: No data available.
FLAMMABILITY (solid, gas): No data available
FLAMMABILITY LIMITS (%): No data available.
FLAMMABILITY EXPLOSIVE (%): No data available.
OXIDIZING PROPERTIES: No data available.
VAPOR PRESSURE (mmHg): 6.1 – 6.78 atm
VAPOR DENSITY (AIR = 1): No data available.
RELATIVE DENSITY: No data available.
RELATIVE VAPOR DENSITY AT 20°C: No data available.
SPECIFIC GRAVITY (H₂O = 1): 0.897 g/ml estimated
LOG POW: No data available
LOG KOW: No data available
SOLUBILITY IN WATER: No data available
PARTITION COEFFICIENT, n-OCTANOL/WATER: No data available
AUTO-IGNITION TEMPERATURE: 200°C estimated
DECOMPOSITION TEMPERATURE: No data available
VISCOSITY: No data available
VISCOSITY KINEMATIC: <20 cSt
VISCOSITY DYNAMIC: No data available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: The product is non-reactive under normal conditions of use, storage and transport.

CHEMICAL STABILITY: Risk of explosion. Risk of ignition. Unstable. The product is stable at normal handling – and storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization does not occur.

CONDITIONS TO AVOID: Heat, open flame, sparks. Incompatible materials. Aerosol containers are unstable at temperatures above 49°C. Avoid temperatures exceeding the flash point.

INCOMPATIBILITY (MATERIAL TO AVOID): No additional information available.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

HAZARDOUS POLYMERIZATION: N/A

CONDITIONS TO AVOID (POLYMERIZATION): NA



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SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Dermal: Not classified.

M-142	
LD50 dermal rat	1974 mg/kg
LD50 dermal rabbit	1038.5883 mg/kg 24 hours estimated
LD50 inhalation rat (mg/l)	4.785 mg/l/4h estimated

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)	
LD50 dermal rabbit	>5000 mg/kg body weight (Rabbit; Literature)

Permethrin (ISO), m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (52645-53-1)	
ATE CLP (oral)	500.000 mg/kg body weight
ATE CLP (dust, mist)	1,500 mg/l/4h

SKIN CORROSION/IRRITATION: Not classified.

SERIOUS EYE DAMAGE/IRRITATION: Not classified

RESPIRATORY OR SKIN SENSITIZATION: May cause an allergic skin reaction.

GERM CELL MUTAGENICITY: Not classified.

CARCINOGENICITY: Not classified.

Permethrin (ISO), m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (52645-53-1)	
IARC group	3 – Not classifiable.

PIPERONYL BUTOXIDE (51-03-6)	
IARC group	3 – Not classifiable.

REPRODUCTIVE TOXICITY: Not classified.

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): Not classified.

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): Not classified.

ASPIRATION HAZARD: May be fatal if swallowed and enters airways.

SYMPTOMS/INJURIES AFTER INHALATION: Prolonged exposure: danger of damage to health through inhalation.

SYMPTOMS/INJURIES AFTER SKIN CONTACT: Dermatitis. Skin rash/inflammation. May cause an allergic skin reaction.

SYMPTOMS/INJURIES AFTER EYE CONTACT: Direct contact with the eyes is likely irritating.

SYMPTOMS/INJURIES AFTER INGESTION: Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Risk of lung edema.



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SECTION 12: ECOLOGICAL INFORMATION

TOXICITY

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)	
LC50 fish 1	>100 mg/l (Pisces)
EC50 Daphnia 1	>100 mg/l (Invertebrate)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)	
Threshold limit algae 1	>100 mg/l (Algae)
Carbon dioxide, liquefied, under pressure (124-38-9)	
LC50 fish 1	35 mg/l LC50; 96h; Salmo gairdneri))

PERSISTENCE AND DEGRADABILITY

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)	
Persistence and degradability	Readily biodegradable in water. Adsorbs into the soil.
Carbon dioxide, liquefied, under pressure (124-38-9)	
Persistence and degradability	Biodegradability: not applicable. Not applicable (gas).
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

BIOACCUMULATIVE POTENTIAL

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-47-8)	
Log Pow	6 – 8.2
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
Carbon dioxide, liquefied, under pressure (124-38-9)	
Log Pow	0.83 (Experimental value)
Bioaccumulative potential	Bioaccumulation: not applicable.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. This material and its container must be disposed of as hazardous waste. Incinerate the material under controlled conditions in an approved incinerator. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. Dispose of contents/container to comply with local/regional/national/international regulations.

ADDITIONAL INFORMATION: Containers, or internal liners coming from a container, having contained this product are also considered as hazardous wastes. This material and its container must be disposed of in a safe manner. Empty containers should be taken for recycle, recovery or waste in accordance with local regulation. Handle unclean empty containers as full ones.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (for ground/non-bulk containers)

CONTAINER SIZE(S):	Aerosol Can (12 oz.)
PROPER SHIPPING NAME:	INSECTICIDE.
HAZARD CLASS:	N/A
ID NUMBER:	None
PACKING GROUP:	None
LABEL STATEMENT:	LTD QT



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SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCE CONTROL ACT): All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Permethrin (ISO), m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	CAS No 52645-53-1	0.1 - 1
PIPERONYL BUTOXIDE	CAS No 51-03-6	0.1 - 1
TETRAMETHRIN	CAS No 7696-12-0	0.1 - 1

Permethrin (ISO), m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (52645-53-1)	
Listed on SARA Section 313 (Specific toxic chemical listings)	

PIPERONYL BUTOXIDE (51-03-6)	
Listed on SARA Section 313 (Specific toxic chemical listings)	

TETRAMETHRIN (7696-12-0)	
Listed on SARA Section 313 (Specific toxic chemical listings)	

CALIFORNIA PROPOSITION 65 – This product does not contain substances known to the state of California to cause cancer and/or reproductive toxicity.

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.



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SECTION 16: OTHER INFORMATION

Full text of H-phrases:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Flam. Aerosol 1	Flammable aerosol Category 1
Flam. Liq. 4	Flammable liquids Category 4
Skin Sens. 1	Skin sensitization Category 1
H222	Extremely flammable aerosol
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H317	May cause an allergic skin reaction
H332	Harmful if inhaled

HMIS/NFPA Ratings: Health = 1
Flammability = 2
Reactivity = 0
Other = -
Protection = 0

REVISION DATE: 05/15/15

N/A = Not Applicable, N/D = Not Determined, N/E = Not Established

DISCLAIMER: While the information contained herein is believed to be correct, no warranties are made with respect thereto, and all liability from reliance thereon is disclaimed.