Section 1. Product and Company Identification

Product Name Myristic Acid
CAS Number 544-63-8

Parchem - fine & specialty chemicals
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New Rochelle, NY 10801
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EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture
OSHA/HCS status: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture: Not classified.

GHS Label Elements
Pictograms: N/A
Signal word: N/A

Hazard and precautionary statements
None

Section 3. Composition / Information on Ingredients

Common Name Myristic Acid
CAS Number 544-63-8

COMPONENT	CAS NUMBER	CONCENTRATION
Myristic Acid (C14)	544-63-8	99 – 100%

Section 4. First Aid Measures

Description of necessary first-aid measures
Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects. acute and delayed
Potential acute health effects
Eye contact: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.
Over-exposure signs/symptoms
Eye contact: No specific data.
Inhalation: No specific data.
Skin contact: No specific data.
Ingestion: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary
Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments: No specific treatment.
Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

Section 5. Firefighting Measures

Extinguishing media
Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media: None known

Specific hazards arising from the chemical: No specific fire or explosion hazard
Hazardous thermal decomposition products: Decomposition products may include the following materials: Carbon Dioxide; Carbon Monoxide
Special protective actions for firefighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for firefighters: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures
For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".
Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up
Small spill: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 13 for waste disposal.

Section 7. Handling and Storage

Precautions for safe handling
Protective measures: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene: Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 1 0) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure Controls / Personal Protection

Control Parameters
Occupational exposure limits: None.

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures
Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment by a qualified industrial hygienist indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection
Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment by a qualified industrial hygienist indicates this is necessary.
Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other Skin Protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and Chemical Properties

Appearance
Physical state: Solid. [Depends on delivery temperature]
Color: White.
Odor: Faint odor.
Flash Point (Open Cup): > 165°C (> 329°F) [ISO 2592]

Section 10. Stability and Reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability: The product is stable

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid: No specific data.
Incompatible materials: No specific data.
Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Myristic acid	LD50 Oral	Rat	>5000 mg/kg	-

Product/ingredient name	Result	Species	Score	Exposure	Observation
Myristic Acid	Eyes - Mild irritant	Rabbit	-	100mg	-
	Skin - Moderate Irritant	Human	-	72 hours/ 75 hours mg intermittent	-
	Skin - Edema	Rabbit	0	-	-
	Eyes - Cornea Opacity	Rabbit	0	-	-

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Myristic Acid	OECD 476 in Vitro Mammalian cell gene mutation test analogy	Experiment: in vitro Subject: Mammalian-animal	Negative

Conclusion/Summary: No mutagenic effect. Analogy
Information on the likely routes of exposure: Not available

Numerical Measures of Toxicity
Acute toxicity estimates: Not available

Section 12. Ecological Information

Myristic Acid
Acute LC50 - Fish: > 100 mg/l (96 hours)

Persistence and Degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Myristic acid	OECD 301D Ready Biodegradability - Closed Bottle Test Analogy	> 80% - Readily - 10 Days	-	-

Conclusion/Summary: This product is readily biodegradable.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Myristic Acid	-	-	Readily

Bioaccumulative Potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Myristic Acid	6.11	-	High

Other adverse effects: No known significant effects or critical hazards.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT Classification: Not regulated
TOG Classification: Not regulated
Mexico Classification: Not regulated
IMDG: Not regulated
IATA: Not regulated

Environmental hazards: No
Additional information: -
Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory Information

US Federal Regulations: United States inventory (TSCA 8b): All components are listed or exempted.
SARA 302/304 - Composition/information on ingredients: No products were found.
SARA 304 RQ: Not applicable.
SARA 311/312 Classification: Not applicable.

Composition/information on ingredients: No products were found.

State Regulations
Massachusetts: None of the components are listed.
New York: None of the components are listed.
New Jersey: None of the components are listed.
Pennsylvania: None of the components are listed.

Canadian regulations
Canada inventory: All components are listed or exempted.
WHMIS (Canada): Not controlled under WHMIS (Canada).

Canadian lists
CEPA Toxic substances: None of the components are listed.
Canadian ARET: None of the components are listed.
Canadian NPRI: None of the components are listed.
Alberta Designated Substances: None of the components are listed.
Ontario Designated Substances: None of the components are listed.
Quebec Designated Substances: None of the components are listed.

International lists
National inventory
Australia: All components are listed or exempted
China: All components are listed or exempted
Europe: All components are listed or exempted
Japan: All components are listed or exempted
New Zealand: All components are listed or exempted
Philippines: All components are listed or exempted
Republic of Korea: All components are listed or exempted

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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