



## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier PARICIN\* 1

**Synonyms:** Methyl 12-hydroxyoctadecanoate; 12-Hydroxystearic acid, methyl ester; Octadecanoic acid, 12-hydroxy-, methyl ester

**Chemical Abstracts Registry No:** 141-23-1

**REACH Registration Number:** 01-2120770066-55-0000

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Lubricant/processing aid in rubber manufacture

#### 1.3. Details of the supplier of the safety data sheet

Aurorium  
201 North Illinois Street, Suite 1800  
Indianapolis, Indiana 46204 USA  
1-336-292-1781

#### Only Representative for EU REACH Registration:

Aurorium Specialties UK Ltd.  
Seal Sands Road, Seal Sands  
Middlesbrough, TS2 1UB  
England  
Phone: +44 1642 546 546

**e-mail Address:** sds@aurorium.com

#### 1.4. Emergency telephone number

**Aurorium:** 1-336-292-1781

**CHEMTREC (USA):** +1-800-424-9300 (collect calls accepted)

**CHEMTREC (International):** +1-703-527-3887 (collect calls accepted)

**NRCC (China):** +86 25 85477110

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture (According to Regulation (EC) No 1272/2008, 29 CFR 1910.1200 and the Globally Harmonized System)

Not Classified as Hazardous

#### 2.2. Label elements

**Signal Word:** Not required.

**Hazard Precautions:** Not Classified as Hazardous

**Prevention Precautionary Statements:** Note: These precautionary statements are not prescribed by Regulation EC 1272/2008 as this product is not classified as hazardous under this regulation. Wash hands thoroughly after handling with soap and water. Wear protective gloves, protective clothing, eye protection and face protection. If swallowed, in eyes, on skin or inhaled call a poison center or doctor/physician if you feel unwell. If inhaled, remove victim to fresh air and keep at rest in a comfortable position for breathing. Take off contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed.

**First Aid Precautionary Statements:** Not required.

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### 2.3. Other hazards

Other Hazards: Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances or 3.2. Mixtures

Ingredient	CAS Number	Concentration (weight %)	EC Number	CLP Inventory/ Annex VI	EU CLP Classification (1272/2008)
Methyl 12-hydroxyoctadecanoate	141-23-1	> 80%	205-471-8	Not listed.	Not applicable.

NOTE: See Section 8 for exposure limit data for these ingredients. See Section 15 for trade secret information (where applicable).

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- Skin Contact:** Quickly and gently, blot or brush away excess chemical. Get medical attention if irritation develops or persists.
- Eye Contact:** Flush with copious amounts of water for at least 15 minutes. If irritation persists seek medical attention. Get medical attention if irritation or other symptoms exist.
- Inhalation:** Remove to fresh air and get medical attention if cough or other symptoms develop.
- Ingestion:** If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Do not give anything by mouth to an unconscious person.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Acute:** Not expected to cause significant eye or skin irritation or sensitization. Not expected to be acutely toxic.
- Delayed Effects:** None known.

#### 4.3. Indication of any immediate medical attention and special treatment needed

- Note to Physician:** No specific indications. Treatment should be based on the judgment of the physician in response to the reactions of the patient.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Appropriate Extinguishing Media:** Water spray, Dry chemical, Carbon dioxide, Alcohol foam

#### 5.2. Special hazards arising from the substance or mixture

- Hazardous Products of Combustion:** As with other organic materials, combustion will produce carbon monoxide and carbon dioxide.
- Potential for Dust Explosion:** not available
- Special Flammability Hazards:** Material may burn, but does not ignite readily. Avoid high temperature. Can burn in fire releasing toxic vapors.

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### 5.3. Advice for firefighters

**Basic Fire Fighting Guidance:** Wear self-contained breathing apparatus and protective clothing. Normal firefighting procedures may be used. As for any fire, evacuate the area and fight the fire from a safe distance

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Evacuation Procedures:** Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Special Instructions:** See Section 8 for personal protective equipment recommendations. Remove all contaminated clothing to prevent further absorption. Decontaminate affected personnel using the first aid procedures in Section 4. Leather shoes that have been saturated must be discarded.

### 6.2. Environmental precautions

Prevent releases to soils, drains, sewers and waterways.

### 6.3. Methods and material for containment and cleaning up

Vacuum, sweep or scoop material into a chemical waste container. After collection of material, flush area with water. Scrub area with detergent and water. Contain spilled liquid with sand or vermiculite and place in chemical waste container. Prevent runoff from entering drains, sewers, and streams.

### 6.4. Reference to other sections

Refer to section 8 for information on selecting personal protective equipment. Refer to section 13 for information on spilled product, absorbent and clean up material disposal instructions.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Precautions for Unique Hazards:** Not applicable.

**Practices to Minimize Risk:** Wear appropriate protective equipment when performing maintenance on contaminated equipment. Wash hands thoroughly before eating or smoking after handling this material. Do not eat, drink or smoke in work areas. Prevent contact with incompatible materials. Avoid spills and keep away from drains. Handle in a manner to prevent generation of aerosols, vapors or dust clouds.

**Special Handling Equipment:** Avoid generating dusts and mists.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Precautions & Recommendations:** Keep container closed when not in use. Store in a cool, dry area, away from heat, flame and other ignition sources.

**Dangerous Incompatibility Reactions:** Incompatible with strong oxidizing agents

**Incompatibilities with Materials of Construction:** None known

### 7.3. Specific end use(s)

If a chemical safety assessment has been completed an exposure scenario is attached as an annex to this Safety Data Sheet. Refer to this annex for the specific exposure scenario control parameters for uses identified in subsection 1.2.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Occupational Exposure Limit**      Not applicable.

#### Derived No Effect Levels (DNELs) – Workers:

	Route	DNEL
	Long-term - systemic effects (inhalation)	No hazard identified
	Acute - systemic effects (inhalation)	No hazard identified
	Long-term - systemic effects (dermal)	42 mg/kg/bw/day
	Acute - systemic effects (dermal)	No hazard identified
	Acute and long-term - local effects (dermal, inhalation)	No hazard identified

#### Derived No Effect Levels (DNELs) – General Population:

	Route	DNEL
	Long-term - systemic effects (oral)	1.67 mg/kg/bw/d
	Long-term - systemic effects (dermal)	15 mg/kg/bw/d
	Long-term - systemic effects (inhalation)	No hazard identified
	Acute - systemic effects (oral, dermal, inhalation)	No hazard identified
	Acute and long-term - local effects (dermal, inhalation)	No hazard identified

#### Predicted No Effect Concentrations (PNECs):

	Route	PNEC
	PNEC aqua (freshwater)	No hazard identified
	PNEC aqua (marine water)	No hazard identified
	PNEC aqua (STP)	1.4 mg/L
	PNEC sediment (freshwater)	No hazard identified
	PNEC sediment (marine water)	No hazard identified
	PNEC soil	No hazard identified

#### 8.2. Exposure controls

Also see the annex to this SDS (if applicable) for specific exposure scenario controls.

**Other Engineering Controls:**      All operations should be conducted in well-ventilated conditions. Local exhaust ventilation should be provided. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protective Equipment:**      Wear impervious gloves (i.e., latex rubber), boots, work uniform and safety glasses

**Respirator Caution:**      Observe OSHA regulations for respirator use (29 CFR 1910.134) or equivalent guidance. Air-purifying respirators must not be used in oxygen-deficient atmospheres.

**Thermal Hazards:**      Not applicable.

**Environmental Exposure Controls:**      The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance, State & Odor (ambient temperature):	Waxy, white opaque solid.		
Vapor Pressure:	< 0.001 mm Hg	Evaporation Rate:	> 1 (Butyl Acetate = 1)
Specific Gravity or Density:	1.02 g/cm <sup>3</sup>	Vapor Density (air = 1):	No data available.
Boiling Point:	(estimated) 382 °C	Freezing / Melting Point:	125 °F (52 °C)
Solubility in Water:	Insoluble	Octanol / Water Coefficient:	Low Kow = 6.69 (estimated)
pH:	Not applicable.	Odor Threshold:	No data available.
Viscosity:	Not applicable.	Autoignition Temperature:	No data available.
Flash Point and Method:	415°F (213°C) PMCC	Flammable Limits:	No data available.
Flammability (solid, gas):	No data available.	Decomposition Temperature:	No data available.
Explosive Properties:	Not explosive.	Oxidizing Properties:	Not an oxidizer.

#### 9.2. Other information

Not applicable.

### SECTION 10: Stability and reactivity

10.1. Reactivity	Not classified as dangerously reactive.
10.2. Chemical stability	Stable
10.3. Possibility of hazardous reactions	Not expected to occur.
10.4. Conditions to avoid	Avoid generation of dust. Avoid heat and contact with incompatible materials
10.5. Incompatible materials	Incompatible with strong oxidizing agents
10.6. Hazardous decomposition products	Products of incomplete combustion may include carbon monoxide, carbon dioxide, nitrogen oxides, and dense smoke.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute Oral LD <sub>50</sub> :	> 2000 mg/kg (rat)	Read across from methyl dodecanoate
Acute Dermal LD <sub>50</sub> :	No data available.	
Acute Inhalation LC <sub>50</sub> :	No data available.	
Skin Irritation:	Essentially non-irritating to skin.	

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<b>Eye Irritation:</b>	Non-irritating to eyes.
<b>Skin Sensitization:</b>	Not a sensitizer
<b>Mutagenicity:</b>	No evidence of mutagenic effects
<b>Reproductive / Developmental Toxicity:</b>	No evidence of reproductive effects
<b>Carcinogenicity:</b>	This material is not listed by IARC, NTP or OSHA as a carcinogen. No test data is available that indicates this material is a carcinogen.
<b>Target Organs:</b>	None known
<b>Aspiration Hazard:</b>	Based on physical properties, not likely to be an aspiration hazard.
<b>Primary Route(s) of Exposure:</b>	Skin contact and absorption, eye contact, and inhalation. Ingestion is not likely to be a primary route of exposure.
<b>Most important symptoms and effects, both acute and delayed</b>	Not expected to cause significant eye or skin irritation or sensitization. Not expected to be acutely toxic. Delayed Effects: None known.
<b>Additive or Synergistic effects:</b>	None known.

### SECTION 12: Ecological information

<b><u>12.1. Toxicity</u></b>	96-hrLC50 Fish = 1700 mg/L NOEC (48-HR) Daphnia magna $\geq$ 100 mg/L NOEC (72-hr) Pseudokirchneriella subcapitata (algae) $\geq$ 100 mg/L	Read across from methyl myristate
<b><u>12.2. Persistence and degradability</u></b>	Readily biodegradable.	
<b><u>12.3. Bioaccumulative potential</u></b>	No data available	
<b><u>12.4. Mobility in soil</u></b>	No data available	
<b><u>12.5. Results of PBT and vPvB assessment</u></b>	This product is not identified as containing a PBT / vPvB substance.	
<b><u>12.6. Other adverse effects</u></b>	No data available.	

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

<b>US EPA Waste Number:</b>	Non-Hazardous
<b>Waste Classification: (per US regulations)</b>	The waste may be classified as "special" or hazardous per State regulations.
<b>Waste Disposal:</b>	NOTE: Generator is responsible for proper waste characterization. State hazardous waste regulations may differ substantially from federal regulations. Dispose of this material responsibly, and in accordance with standard practice for disposal of potentially hazardous materials as required by applicable international, national, regional, state or local laws, and environmental protection duty of care principles. Do NOT dump into any sewers, on the ground, or into any body of water. For disposal within the EC, the appropriate classification code according to the European Community List of Wastes should be used.

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Note that disposal regulations may also apply to empty containers and equipment rinsates.

### SECTION 14: Transport information

*The following information applies to all shipping modes (DOT/IATA/ICAO/IMDG/ADR/RID/ADN), unless otherwise indicated:*

14.1. UN number	Not applicable	14.2. UN proper shipping name	Chemicals, n.o.s. (Paricin* 1)
14.3. Transport hazard class(es)	Not applicable	14.4. Packing group	Not applicable
14.5. Environmental hazards	Not applicable		
14.6. Special precautions for user	Not applicable		
NA Emergency Guidebook Numbers:	Not applicable	IMDG EMS:	Not applicable;
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code			Not applicable.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>Chemical Inventory Lists:</b>	<b>Status:</b>		
USA TSCA:	Listed	EC / list No.:	205-471-8
Canada(DSL/NDSL):	DSL	Japan:	(2)-1341
Korea:	KE-24293	Australia:	Listed
China:	26763	Philippines:	Listed
Taiwan:	Listed	New Zealand:	Listed
<b>German Water Hazard Classification:</b>	WGK 1 - low hazard to waters		
<b>SARA 313:</b>	Not listed.		
<b>Other Regulatory Listings:</b>	All ingredients are listed on the Inventory of Cosmetic Ingredients (INCI). This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This substance is not classified as hazardous according to Regulation (EC) No 1272/2008.		

HMIS IV:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

NFPA:



#### 15.2. Chemical safety assessment

Not applicable.

### SECTION 16: Other information

**Classification Method:** On basis of test data

**Legend of Abbreviations:**

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ACGIH = American Conference on Governmental Industrial Hygienists.  
CAS = Chemical Abstracts Service.  
CFR = Code of Federal Regulations.  
DSL/NDSL = Domestic Substances List/Non-Domestic Substances List.  
EC = European Community.  
EINECS = European Inventory of Existing Commercial Chemical Substances.  
ELINCS = European List of Notified Chemical Substances.  
EU = European Union.  
GHS = Globally Harmonized System.  
LC = Lethal Concentration.

LD = Lethal Dose.  
NFPA = National Fire Protection Association.  
NIOSH = National Institute of Occupational Safety and Health.  
NTP = National Toxicology Program.  
OSHA = Occupational Safety and Health Administration  
PEL = Permissible Exposure Limit.  
RQ = Reportable Quantity.  
SARA = Superfund Amendments and Reauthorization Act of 1986.  
TLV = Threshold Limit Value.  
WHMIS = Workplace Hazardous Materials Information System.

**Important Note:** Please note that the information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. The information contained herein may change without prior notice. THIS SAFETY DATA SHEET SUPERSEDES ALL PREVIOUS EDITIONS.

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