



# Casid™ HSA

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Revision date: 5/23/2022 Supersedes: 11/30/2021 Version: 4.2

### SECTION 1: Identification

#### 1.1. Identification

Product form	: Substance
Trade name	: Casid™ HSA
IUPAC name	: 12-hydroxystearic acid
CAS-No.	: 106-14-9
Product code	: 104012700
Formula	: C18H36O3
Synonyms	: 12-hydroxyoctadecanoic acid
BIG No	: 20429

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture	: Formulation Cosmetics, personal care products
Restrictions on use	: None

#### 1.3. Supplier

##### Global Headquarters

Aurorium  
201 North Illinois Street  
Suite 1800  
Indianapolis, IN, 46204  
USA  
T +1-317-247-8141

[SDS@aurorium.com](mailto:SDS@aurorium.com) - [www.aurorium.com](http://www.aurorium.com)

#### 1.4. Emergency telephone number

Emergency number	: Aurorium: +1-317-247-8141 CHEMTREC (USA): +1-800-424-9300 (24 hours) CHEMTREC (International): +1-703-527-3887 (24 hours)
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### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Not classified

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

No labeling applicable

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

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### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Substance type : Mono-constituent  
Name : Casid™ HSA  
CAS-No. : 106-14-9

Name	Product identifier	%	GHS US classification
12-Hydroxystearic Acid	CAS-No.: 106-14-9	85.0 - 90	Not classified
Stearic Acid	CAS-No.: 57-11-4	10 – 15	Not classified

Full text of hazard classes and H-statements : see section 16

#### 3.2. Mixtures

Not applicable

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice. First aider: Pay attention to self-protection. Wear gloves. Do not breathe dust.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.  
First-aid measures after skin contact : Brush off loose particles from skin. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.  
First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. If eye irritation persists: Get medical advice/attention.  
First-aid measures after ingestion : Rinse mouth out with water. Do NOT induce vomiting. Get medical advice/attention.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : May cause slight temporary irritation.  
Chronic symptoms : No chronic health hazards are likely for this material.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical.  
Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable.  
Explosion hazard : Product is not explosive.  
Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance.  
Protection during firefighting : Wear recommended personal protective equipment. Complete protective clothing. Self-contained breathing apparatus.

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### SECTION 6: Accidental release measures

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

General measures : Ventilate spillage area. Mark out the contaminated area with signs and prevent access to unauthorized personnel.

##### 6.1.1. For non-emergency personnel

Emergency procedures : Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Evacuate unnecessary personnel.

Measures in case of dust release : In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.

##### 6.1.2. For emergency responders

Protective equipment : Exposure controls (Section 8.2). Do not attempt to take action without suitable protective equipment.

Emergency procedures : Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

#### 6.2. Environmental precautions

Prevent liquid from entering sewers, watercourses, and soil.

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

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Other information : Collect all waste in suitable and labeled containers and dispose according to local legislation.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For waste disposal after cleaning, see section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Avoid any direct contact with the product. Avoid dust formation.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

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

Storage conditions : Keep container closed when not in use. Keep in a well-ventilated room. Store at ambient temperature. Store in a dry place.

Incompatible products : Strong bases. Strong oxidizers.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Use only in well ventilated areas. Provide local exhaust or general room ventilation.

Environmental exposure controls : Prevent entry to sewers and public waters.

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### 8.3. Individual protection measures/Personal protective equipment

**Hand protection:**

Wear suitable gloves

**Eye protection:**

Chemical goggles or safety glasses

**Skin and body protection:**

Long sleeved protective clothing. Chemical resistant safety shoes

**Respiratory protection:**

Respiratory protective device with a particle filter

**Thermal hazard protection:**

Not applicable.

**Other information:**

Industrial and professional. Perform risk assessment prior to use.

## SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Appearance	: Waxy flakes.
Color	: White to off-white
Odor	: Practically odourless
Odor threshold	: No data available
pH	: Not applicable
Melting point	: 75 – 78 °C (OECD 102 method)
Freezing point	: Not applicable
Boiling point	: 265 °C 101.3 kPa
Flash point	: Not applicable (solid)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not flammable
Vapor pressure	: < 0.00003 Pa (OECD 104 method)
Relative vapor density at 20 °C	: Not applicable
Relative density	: 1.01 (20°C) (OECD 109 method)
Density	: 1.01 g/cm <sup>3</sup> (20°C)
Molecular mass	: 300.48 g/mol
Solubility	: Soluble in chloroform. Soluble in ethanol. Soluble in ether. Water: 0.976 mg/l - Practically insoluble (20°C)
Partition coefficient n-octanol/water (Log Pow)	: 5.7 (OECD 117 method)
Auto-ignition temperature	: No self ignition was observed up to the specified temperature: 100°C (Test method EU A.16)
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Lower explosive limit (LEL): Not applicable Upper explosive limit (UEL): Not applicable
Explosive properties	: Product is not explosive.
Oxidizing properties	: Not oxidising.

### 9.2. Other information

Minimum ignition energy	: 1000 mJ
VOC content	: 0 %

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known.

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid high temperatures. Incompatible materials.

#### 10.5. Incompatible materials

Strong bases. Strong oxidizers.

#### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Based on available data, the classification criteria are not met  
Acute toxicity (dermal) : Based on available data, the classification criteria are not met  
Acute toxicity (inhalation) : Not classified

#### Casid™ HSA (106-14-9)

LD50 oral rat	> 10000 mg/kg bw/day Data from similar product
LD50 dermal rabbit	> 5000 mg/kg bw/day Data obtained by expert judgment

Skin corrosion/irritation : Based on available data, the classification criteria are not met (Chemical category)  
May cause slight temporary irritation  
pH: Not applicable

Serious eye damage/irritation : Based on available data, the classification criteria are not met (Chemical category)  
May cause slight temporary irritation to ocular mucous membranes  
pH: Not applicable

Respiratory or skin sensitization : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Based on available data, the classification criteria are not met

Carcinogenicity : Based on available data, the classification criteria are not met

Reproductive toxicity : Based on available data, the classification criteria are not met

STOT-single exposure : Based on available data, the classification criteria are not met

STOT-repeated exposure : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Likely routes of exposure : Skin and eye contact. Absorbed through the skin. Inhalation.

Symptoms/effects : May cause slight temporary irritation.

Chronic symptoms : No chronic health hazards are likely for this material.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Casid™ HSA (106-14-9)	
LC50 - Fish [1]	> 1000 mg/l (OECD 203 method) Similar substances
EC50 - Crustacea [1]	> 100 mg/l (OECD 202 method)
ErC50 algae	> 100 mg/l (72 hours) (OECD 201 method)

#### 12.2. Persistence and degradability

Casid™ HSA (106-14-9)	
Persistence and degradability	Expected to be biodegradable.

#### 12.3. Bioaccumulative potential

Casid™ HSA (106-14-9)	
BCF - Fish [1]	56.23 l/kg (calculated value)
Partition coefficient n-octanol/water (Log Pow)	5.7 (OECD 117 method)
Bioaccumulative potential	Bioaccumulation is not expected to occur.

#### 12.4. Mobility in soil

Casid™ HSA (106-14-9)	
Mobility in soil	Low potential for absorption in soil
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.96 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

#### 12.5. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste treatment methods	: Dispose in a safe manner in accordance with local/national regulations.
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Product/Packaging disposal recommendations	: Dispose of contents or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
<b>14.1. UN number</b>		
Not regulated for transport		
<b>14.2. Proper Shipping Name</b>		
Not applicable	Not applicable	Not applicable

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DOT	IMDG	IATA
<b>Transport document description</b>		
Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>		
Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>		
Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>		
Not applicable	Not applicable	Not applicable
No supplementary information available		

### 14.6. Special precautions for user

#### DOT

No data available

#### IMDG

No data available

#### IATA

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
12-Hydroxystearic Acid	106-14-9	Present	Active	
Stearic Acid	57-11-4	Present	Active	

This product or mixture is NOT known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### CANADA

##### 12-Hydroxystearic Acid (106-14-9)

Listed on the Canadian DSL (Domestic Substances List)

##### Stearic Acid (57-11-4)

Listed on the Canadian DSL (Domestic Substances List)

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### EU-Regulations

#### 12-Hydroxystearic Acid (106-14-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Stearic Acid (57-11-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### National regulations

#### 12-Hydroxystearic Acid (106-14-9)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on the NCI (Vietnam - National Chemical Inventory)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### Stearic Acid (57-11-4)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemical Inventory)

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

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Revision date : 05/23/2022

Other information : ™ Indicates a proprietary trademark, registered in the US and/or elsewhere.

### Abbreviations and acronyms

CAS-No.	Chemical Abstract Service number
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road



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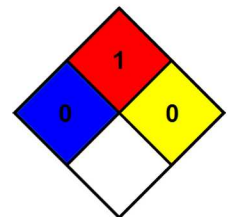
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Abbreviations and acronyms	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disrupting properties
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
VOC	Volatile Organic Compounds
WGK	Water Hazard Class
vPvB	Very Persistent and Very Bioaccumulative

NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health : 0 Minimal Hazard - No significant risk to health

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:
Section 3. Composition/Information on ingredients.

Safety Data Sheet (SDS), USA

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.