Isononyl Isononanoate

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / March 26, 2012 / Rules and Regulation

Revision Date: 22-Jan-2026
Supersedes: 03-Oct-2023

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Isononyl Isononanoate
Synonyms: No data available
INCI Name: Isononyl Isononanoate
CAS Number: 59219-71-5, 42131-25-9
Formula: C18H3602
Product Form: Liquid
Product Use: Cosmetic use

Distributor: MakingCosmetics Inc.
Address: 10800 231st Way NE
Redmond, WA 98053 (USA)
Phone / Fax: 425-292-9502 / 425-292-9601
Web: **www.makingcosmetics.com**

Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

2012 OSHA Classification (CFR 1910.1200): Not classified.
Labeling: None.
Hazard Pictograms: None.
Hazard Statements: H318: Causes serious eye damage.
H332: Harmful if inhaled.
H412: Harmful to aquatic life with long lasting effects.
Precautionary Statements: None.
Potential Health Hazards: Eyes: Not expected to be irritant.
Inhalation: Not expected to be irritant.
Skin: Not expected to be irritant.
Ingestion: May cause nausea, vomiting, and diarrhea.

NFPA Ratings (704):

Health	N/A	N/A
Flammability	N/A	N/A
Reactivity	N/A	N/A
Specific Hazard	N/A	

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	Molecular Weight
Isononyl Isononanoate	59219-71-5, 42131-25-9	100%	284.4g/mol

4 FIRST AID MEASURES

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Inhalation: If breathed in, move person into fresh air. Consult with a physician.
Skin: Take off all contaminated clothing immediately.
Ingestion: Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Seek medical attention.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: May be combustible at high temperature. Use appropriate media (water. Foam, dry powder, carbon dioxide) for adjacent fire. Do not use direct water jet.
Special protective equipment & precautions for firefighters: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Flash Points: >212°F (>100°C)
Specific hazards arising from the chemical: None known. See also Stability and Reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures: Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment.

Environmental precautions: Avoid liquid release into sewers/public water. Notify environmental authorities in case of large leaks.

Methods and material for containment and cleaning up: Wipe up with absorbent material (e.g. cloth, fleece). Soak up inert absorbent material (e.g. sand, silica gel, acid binder, universal biner, sawdust). Dispose of all waste and cleanup materials in accordance with regulations.

7 HANDLING & STORAGE

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Handle an open container with care. The hot product gives off combustible vapors. With hot product, remove all potential sources of ignition and take precautionary measures against static discharge. See section 8 for recommendations on the use of personal protective equipment. Keep container closed when not in use.

Conditions for safe storage, incl. any incompatibilities: Store in original container. Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool, dry well-ventilated area. Keep away from heat and incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Exposure Limits	Basis	Entity
Isononyl Isononanoate	None		

TWA: Time Weighted Average over 8 hours of work.
TLV: Threshold Limit Value over 8 hours of work.
REL: Recommended Exposure Limit
PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.
IDLH: Immediately Dangerous to Life or Health
WEEL: Workplace Environmental Exposure Levels
CEIL: Ceiling

Personal Protection:

Eyes: Wear tightly fitting goggles.

Inhalation: Wear suitable respiratory protection.

Body: Protective gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Gloves must be inspected prior to use. Use proper removal technique (without touching glove's outer service) to avoid contact. Dispose of contaminated gloves after use. Wear full protective clothing.

Other: Use good personal hygiene practices. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid	**Vapor Pressure:**	No data available
Odor:	Characteristic	**Vapor Density:**	No data available
Odor Threshold:	No data available	**Evaporation Rate:**	No data available
Color:	Water white	**Flammability:**	No data available
Molecular Weight:	No data available	**Upper/lower Explosive Limit:**	No data available
pH:	No data available	**Flash Point:**	>212°F (>100°C)
Boiling Point:	No data available	**Specific Gravity:**	No data available
Melting Point:	No data available	**Solubility in Water:**	No data available
Density at 25°C:	0.840-0.870 g/ml	**Auto-Ignition Temperature:**	No data available
Partition Coefficient: n-octanol/water:	No data available	**Decomposition Temperature:**	No data available
Viscosity:	No data available	**Explosive Properties:**	No data available
Oxidizing Properties:	No data available	**Freezing Point:**	No data available

10 STABILITY AND REACTIVITY

Reactivity: Stable under recommended storage conditions.

Chemical Stability:	No decomposition if stored and applied as directed.
Hazardous Polymerization:	None reasonably foreseeable.
Conditions to Avoid:	Protect from frost, heat, and sunlight.
Incompatible Materials:	None reasonably foreseeable.
Hazardous Decomposition Products:	No data available.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available.
Skin:	(Rat) Dermal LD50: >2000 mg/kg (OECD Test Guideline 402). Mildly irritant-does not need to be labelled (OECD Test Guideline 404).
Eyes:	Risk of serious damage to eyes (OECD Test Guideline 405). Result: Mildly irritant – does not need to be labelled (OECD Test Guideline 405) Test substance: 5% solution.
Respiratory:	(Rat) LC50: 3,07 mg/l (OECD Test Guideline 403).
Ingestion:	(Rat) LD50: >2000 mg/kg (OECD Test Guideline 401).
Carcinogenicity:	No data available.
Teratogenicity:	(Rat) Oral, NOAEL 800 mg/kg (OECD Test Guideline 414).
Germ Cell Mutagenicity:	In Vitro: Not mutagenic in Ames Test (OECD 471). In Vivio: Micronucleus test: Not mutagenic (OECD 474).
Embryotoxicity:	No data available.
Specific Target Organ Toxicity:	No data available.
Reproductive Toxicity:	No data available.
Respiratory/Skin Sensitization:	No data available.
Sensitization:	Did not cause sensitization in lab animals (OECD Test Guideline 406).
Repeated Dose Toxicity:	OECD Test Guideline 407, the "No toxic effect level" during oral application with rats over a 28-day period is 100 mg/kg/day. A NOEL cannot be defined. (Rat) Oral Exposure time: 90 days; NOAEL: 50mg/kg.

12 ECOLOGICAL INFORMATION

Ecotoxicity	
Aquatic Vertebrate:	(Brachidanio Rerio) LC50: 60,2 mg/l. NOEC: 1,5 mg/l; 35 days; OECD Test Guideline 210).
Aquatic Invertebrate:	(Daphnia Magna) EC50: 89,6 mg/l; 24 hours. (Daphnia Magna) EC50: 78,3 mg/l; 48 hours. NOEC: 20mg/l; 21 days; OECD Test Guideline 211).
Algae:	(Desmodesmus Subspicatus) IC50: 48,3 mg/l; 72 hours.
Bacteria:	EC50: 560 mg/l; OECD 209.
Persistence and Degradability:	Result: According to OECD Criteria, the product is inherently biodegradable (OECD 302B/ISO 9888/EEC 88/302C.
Bioaccumulative Potential:	Log Pow: 2,53 at 20°C, Method: OECD Test Guideline 107.
Mobility in Soil:	No data available.
PBT and vPvB Assessment:	This substance is not considered to be persistent, bioaccumulating, or non-toxic (PBT).
Other Adverse Effects:	Absorbed organic bound halogens (AOX). Product does not contain any organic halogens.

13 DISPOSAL CONSIDERATIONS

Waste Residues:	Can be disposed of as solid waste or burned in a suitable installation subject to local regulations. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product.
Product Containers:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA): No data available.

TDG (Transportation of Dangerous Goods, Canada):	No data available.
IMDG (International Maritime Dangerous Goods):	No data available.
IATA (International Air Transport Association):	No data available.
ICAO (International Civil Aviation Organization):	No data available.

15 REGULATORY INFORMATION

TSCA Inventory Status:	No data available.
Chemical Safety Assessment:	A chemical safety assessment is not required for this substance.
Directive 96/82/EC:	Legislation on the control of major accident hazards involving dangerous substances does not apply.
VOC Content:	No volatile organic compounds content.
DSL (Canada):	No data available.
EU EINECS/ELINCS/NLP:	No data available.
China IECSC:	No data available.
Australia AICS:	No data available.
Japanese MITI:	No data available.
Philippines PICCS:	No data available.
Korea KECL:	No data available.
New Zealand NZIoC:	No data available.

16 OTHER INFORMATION

Revision Date:	22-Jan-2026
Compliance:	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
Disclaimer:	This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitableness & completeness of such information for his own particular use.