

1 Product and Identification

Product Name

Unisol Syn 100

SDS

16 28 31 A

Recommended Use of the Chemical And Restrictions on Use

Metalworking lubricant.

Supplier Address

Universal Oil, Inc.

265 Jefferson Ave

Cleveland, Oh 44113

sales@universaloil.com

Company Phone Number 1-216-771-4300

2 Hazards Identification

Appearance:	Clear/Amber
Odor:	Bland
Warning Statement:	Do not add nitrites, this product contains amines which may react, under certain conditions with nitrosating agents to form nitrosamines.



Signal Word
Warning

Potential Health Effects

Primary Route Of Exposure			
Eye	Skin	Inhalation	Ingestion
X	X	X	

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

Carcinogen listed by – IARC (No) NTP (No) OSHA (No) ACGIG (No). Pre-existing medical conditions aggravated by exposure-skin disorders.

3 Composition/Information on Ingredients

The criteria for listing components in the composition section is as follows: Carcinogens are listed when present at 0.1% or greater; Components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater. Ingredients not precisely identified are either proprietary or nonhazardous. Values are not product specifications.

CAS Number	% Concentration	Chemical Name
102-71-6	<10	Ethanol, 2,2,2 nitrilotris
141-43-5	<5	Ethanol, 2 amino
7732-18-5	<50	Water

4 First Aid Measures

- **Inhalation:** Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, remove from exposure, contact a physician immediately if any type of irritation or discomfort persists.
- **Skin:** Concentrate may irritate skin. At 10% concentration in water, no damage or only minimal irritation is expected. In case of skin contact, wash area with large amounts of soap and water.
- **Eye:** Concentrate will irritate or damage eyes. If concentrate or diluted product is splashed into eyes, flush immediately with clean water for 15 minutes or until irritation subsides.
- **Ingestion:** If ingested, **Do not** induce vomiting; product is alkaline. Call a physician immediately.

5 Fire Fighting Measures

Ignition Temperature-AIT:	Not Determined	
Flash Point:	N/A	
Flammable Limits (%):	Lower	Not Determined
	Upper	Not Determined
Extinguishing Media:	Use water spray, dry chemical, foam, or carbon dioxide.	
Fire & Explosion Hazards:	Not Determined	
Special Fire Fighting Instructions:	Wear self-contained breathing apparatus. Wear structural firefighters protective clothing.	

Ratings	Health	Fire	Reactivity
NFPA	1	0	0
HMIS	1	0	0

Specific Hazard: None Known

6 Accidental Release Measures

Contain spill: Use personal protective equipment stated in Section 7. Advise EPA; State agency if required. Absorb on inert material. Shovel, sweep, or vacuum spill.

7 Handling & Storage

- **Precautions to be taken in handling:** Wash thoroughly after handling.
- **Storage:** Periods of exposure to high temperature should be minimized.

8 Exposure Control/Personal

Protection

Consult with a Health/Safety professional for specific selection.

- **Ventilation:** Ventilate as needed to comply with exposure limit. Mechanical ventilation recommended.
- **Eye:** Splash proof chemical goggles recommended to protect against splash of product.
- **Gloves:** Protective gloves recommended when prolonged skin contact cannot be avoided. The following glove materials are acceptable: Polyethylene, Neoprene; Nitrile; Viton.
- **Respirator:** Concentration in air determines protection required. Use only NIOSH certified respiratory protection. Respiratory protection usually not needed unless product is heated or misted.
- **Other:** If contact is unavoidable, wear chemical resistant clothing. The following materials are acceptable as protective clothing materials: Polyethylene; Neoprene; Viton; Polyurethane. Launder soiled clothes.

9 Physical & Chemical Properties

Physical State:	Liquid
Appearance:	Clear/Amber
Odor:	Bland
Odor Threshold:	N/E
Specific Gravity:	1.03
Viscosity:	N/A
Solubility in Water:	Complete in all proportions
Vapor Pressure	N/E
pH:	9.3 @ 10%
% Volatile by Volume:	60

10 Stability & Reactivity

Chemical Stability:	Stable
Incompatible Materials:	Strong Oxidizers
Hazardous Decomposition:	Carbon oxides & asphyxiates
Polymerization:	Will not occur

11 Toxicological Information

This product contains no components present at concentrations equal to or greater than 0.1% listed by IARC, OSHA, NTP or ACGIH as a carcinogen.

12 Ecological Information

Do not discharge this product into public waters or waterways unless authorized by a National Pollution Discharge Elimination System (NPDES) permit issued by the Environmental Protection Agency (EPA).

13 Disposal Considerations

Follow Federal, State and Local regulations. Not a RCRA hazardous waste if uncontaminated. If "used", RCRA criteria (ignitability, reactivity, corrosivity, toxicity characteristics) must be determined. Do not flush to drain/storm sewer. Contract to authorized disposal service.

14 Transportation Information

DOT:	Proper Shipping Name	Synthetic Metalworking Fluid
	Hazard Class	Not Regulated
	Identification Number	Not Regulated
	Label Required	Not Regulated
IMDG:	Proper Shipping Name	No Data Available
IATA:	Proper Shipping Name	No Data Available

15 Regulatory Information

SARA 302	N/A
Threshold Planning Quantity:	
SARA 304	N/A
Reportable Quantity:	
SARA 311	NA
Hazardous Classification:	
SARA 313	This product does not contain any chemicals subject to the reporting requirements.
Toxic Chemical:	

16 Other Information

We assigned NFPA and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is the most aware of the application of the product, he must ensure that the proper personal protective equipment is provided consistent with the information contained in the product MSDS.

Comments: The information contained herein is believed to be accurate, but it is not warranted to be whether originating within the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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Prepared By	Date Prepared
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