

Organic Standards Solutions International, LLC

SAFETY DATA SHEET

Version 1
Effective 2.4.15

SECTION 1: PRODUCT/COMPANY IDENTIFICATION

Name 10 mls EPA Method 1664 LCS Sol., 40 mg Total of Stearic Acid and Hexadecane
 Catalog Number G3025
 Recommended Use and Restrictions on Use: For laboratory use only. Product should be handled only by properly trained laboratory personnel. Not for human consumption.

Manufacturer:

Organic Standards Solutions International, LLC
 (o2si smart solutions)
 2030 Savage Road
 Charleston, South Carolina 29407 866.272.0932

For Chemical Emergency, Spill, Leak, Fire Exposure or Accident
 Call CHEMTREC Day or Night
 Within USA and Canada: 1-800-424-9300
 Outside USA and Canada: +1 703-527-3887 (Collect Calls Accepted)

SECTION 2: HAZARDS IDENTIFICATION

All chemicals should be considered hazardous. Direct Physical contact should be avoided.

OSHA Hazards Flammable liquids (Category 2), H225
 Eye irritation (Category 2A), H319
 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
 Target Organs Eyes, skin, respiratory system, central nervous system
 Serious eye damage/eye irritation, Category 2A
 GHS Classification Flammable liquids, Category 2
 Specific target organ toxicity — Single exposure, Category 3, Narcosis
 Highly flammable liquid and vapour
 Causes serious eye irritation
 May cause drowsiness or dizziness

Signal Word Danger

Pictogram



Hazard H225 Highly flammable liquid and vapor.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Precautionary Statements P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P264 Wash skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ eye protection/ face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P403 + P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification

Health 2
 Chronic *
 Flammability 3
 Physical Hazard 0

Potential Health Effects

Inhalation Nausea, vomiting, headache, excitement, faintness, fatigue, and bronchial irritation may result from inhalation exposure.
 Skin Repeated dermal exposure to liquid acetone can cause defatting and drying of the skin, and brittle nails. Chemical burns may develop after prolonged exposure.
 Eyes Acetone and its vapors are mildly irritating to the eyes and mucous membranes.
 Ingestion Effects resemble those of ethanol intoxication, including lethargy, ataxia, lightheadedness, and incoherent speech. Stupor and coma occur with large ingestions.

SECTION 3: COMPOSITION/INGREDIENTS INFO

Formula Solution
 Molecular Weight NA
 Synonyms Dimethyl ketone, Ketone propane, 2-Propanone

<u>Component</u>	<u>CAS #</u>	<u>EC #</u>	<u>Index #</u>	<u>Composition</u>
Acetone	67-64-1	200-662-2	606-001-00-8	90-100%

n-hexadecane (C16)	544-76-3			2000 mg/L
stearic acid	57-11-4			2000 mg/L

SECTION 4: FIRST AID MEASURES

General Advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
 Inhalation Remove to fresh air, give artificial respiration if breathing has stopped only if you have been trained to do so. Consult a physician.
 Skin Soap wash promptly. Consult a physician.
 Eyes Immediately flush with water for 15 minutes. Consult a physician.
 Ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical help immediately.
 Medical Symptoms irritation eyes, nose, throat; headache, dizziness, central nervous system depression; dermatitis

SECTION 5: FIRE FIGHTING MEASURES

Conditions of Flammability Dangerous fire and explosion hazard. Closed container may explode upon heating. Vapor may travel distances to ignition sources then flash. Keep away from heat, sparks, open flame, and hot surfaces. No smoking.
 Suitable Extinguishing Agents Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
 Do Not Use
 Personal Protection Equipment for Wear self-contained breathing apparatus for firefighting if necessary.

Firefighters
Hazardous Decomp
Products

Carbon oxides

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal	Wear respiratory protection when air monitoring results indicate dangerous levels of chemical vapor. Ensure adequate ventilation. Evacuate any area where dangerous levels of vapor may accumulate.
Environmental Containment & Cleanup	Prevent further leakage or spillage only when it is safe to do so. Prevent product from entering drains. Contain spillage. Collect spilled product and any absorbent material with an electrically protected vacuum cleaner or by wet-brushing. Place in container for disposal according to applicable regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling	Keep away from ignition sources - No Smoking. Use with adequate ventilation. Wear gloves, eye protection, and chemical resistant clothing.
Conditions for Safe Storage	Keep closed containers in a dry and well-ventilated storage location. Containers that have been opened for use should be completely resealed and kept upright to prevent leakage. See product Certificate of Analysis for detailed storage conditions.
Incompatible With	Oxidizers, acids

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with Control Parameters	Acetone
PEL:	1000 ppm
REL: Short Term	250 ppm
Long Term	
TLV: Short Term	
Long Term	
Personal Protection Equipment	
Hygiene	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
Respiratory	Use in a well ventilated area or in a properly functioning fume hood. A full face respirator may be used as a backup to engineering controls.
Hand	Wear gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash hands regularly.
Eye	Use face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin	Wear chemical resistant clothing to avoid skin contact with this material. The use of a lab coat is recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance			
Form	Liquid		
Color	colorless		
Odor	fragrant, mint-like odor		
Safety Data			
pH	NA		
Freezing Pt	-94 C	Vapor Pressure	No Data Available
Boiling Pt	50 - 56 C	Density	0.791 g/mL at 25 °C
Flash Pt	-20 C	Vapor Density	No Data Available
Ignition Temp	No Data Available	Water Solubility	completely miscible
Autoignition Temp	465 C	Evaporation Rate	No Data Available
LEL	2%	Partition Coefficient	-0.24
UEL	13%	Odor Threshold	No Data Available

SECTION 10: STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions. See Certificate of Analysis.
Possibility of Hazardous Reactions	Vapors may form explosive mixture with air.
Hazardous Decomp	Carbon oxides
Conditions to Avoid	Heat, flames and sparks. Extremes of temperature and direct sunlight.
Materials to Avoid	Bases, Oxidizing agents, Reducing agents, Acetone reacts violently with phosphorous oxychloride.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity (LD/LC50)	<u>Component</u> Acetone	<u>LD/LC 50</u> LD50 Oral - Rat - 5,800 mg/kg LC50 Inhalation - Rat - 8 h - 50,100 mg/m3 LD50 Dermal - Guinea pig - 7,426 mg/kg
Likely Routes of Exposure	inhalation, ingestion, skin and/or eye contact	
Skin	No Data Available	
Eyes	No Data Available	
Respiratory	No Data Available	
Sensitization	No Data Available	
Carcinogenicity	No Data Available	
Teratogenicity	No Data Available	
Specific Target Organ Toxicity		
Single Exposure	May cause drowsiness or dizziness.	
Multiple Exposure	No Data Available	
Additional	No Data Available	

SECTION 12: ECOLOGICAL INFORMATION

Toxicity	LC50 - Oncorhynchus mykiss (rainbow trout) - 5,540 mg/l - 96 h LC50 - Daphnia magna (Water flea) - 8,800 mg/l - 48 h
Persistence & Degradability	Result: 91 % - Readily biodegradable
Bioaccumulative Potential	Does not bioaccumulate
Mobility in Soil	No Data Available
PBT and vPvB	No Data Available
Other	No Data Available

SECTION 13: DISPOSAL CONSIDERATIONS

Product	Offer unused or expired solutions to a licensed, professional and reputable waste disposal company. Waste associated with this product is not intended for standard sewage disposal. Follow all Federal, State, and local regulations when disposing of this material. See Section 8 of this SDS for exposure control and personal protection information prior to handling waste.
Packaging	Dispose of contaminated packaging as unused product.

SECTION 14: TRANSPORTATION INFORMATION

Shipping Name	Acetone
UN Number	UN 1090
Shipping Class	3
Packing Group	II
Marine Pollutant DOT	

Marine Pollutant IMDG

EMS #

SECTION 15: REGULATORY INFORMATION

OSHA Hazards	Flammable liquids (Category 2), H225 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336	
SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.	
SARA 311/312		
Acute Health	YES	
Chronic Health	YES	
Fire	YES	
Sudden Release		
Reactive		
California Prop 65	<u>Compound</u>	<u>CAS No</u>
	This product does not contain Proposition 65 chemicals.	

SECTION 16: OTHER INFORMATION

This material should be used only by personnel trained in good laboratory practices and in handling hazardous substances.

The above information has been gathered from various technical sources and is believed to be accurate to the best of our knowledge but does not claim to be all inclusive. The data given is for informational purposes only and is intended to be used by personnel with the appropriate technical training to properly interpret the data. Since storage conditions and the way the product is used are out of our control, we make NO EXPRESSED OR IMPLIED WARRANTY OF MERCHANT ABILITY, FITNESS, OR OTHERWISE.