

1. IDENTIFICATION

Product identifier Product Name Oil & Grease QC Standard

Other means of identification

Product Code QC-003L or QC-003

UN/ID no. UN1090 **Synonyms** None

Recommended use of the chemical and restrictions on use

Recommended Use For Laboratory Use Only.

Uses advised against Ingestion

Details of the supplier of the safety data sheet

Supplier Address

NSI Lab Solutions
7212 ACC Blvd.
Raleigh, NC 27617

Emergency telephone number

Company Phone Number 800-234-7837

FAX 919-957-9657

Website www.nsilabsolutions.com

E-mail address nsi@nsilabsolutions.com

Emergency Telephone 800-234-7837: 8 - 5 EST M-F

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2 - H319
Specific target organ toxicity (single exposure)	Category 3 - H336
Flammable liquids	Category 2 - H225

Label elements

Emergency Overview

Danger

Hazard statements

H319: Causes serious eye irritation

H336: May cause drowsiness or dizziness

H225: Highly flammable liquid and vapor



Appearance Clear, colorless liquid

Physical state Liquid

Odor No Information Available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Avoid breathing dust/fume/gas/mist/vapors/spray.
 Use only outdoors or in a well-ventilated area.
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use explosion-proof electrical/ ventilating / lighting/ equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Keep cool

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention.
 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 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.
 In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed
 Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC)

Repeated exposure may cause skin dryness or cracking.

Other Information

May be harmful if inhaled
 Unknown acute toxicity 0.2% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No.	Weight-%
Acetone	67-64-1	99.6
Stearic acid	57-11-4	0.2
n-Hexadecane	544-76-3	0.2

Refer to Certificate of Analysis for exact percentage concentration.

4. FIRST AID MEASURES

Description of first aid measures

Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water.
Inhalation	Remove to fresh air.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. Consult a physician, if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms	The most important known symptoms and effects are described in Section 2 and/or Section 11.
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Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No Information Available.

Specific hazards arising from the chemical

Carbon oxides.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge May be ignited by heat, sparks or flames.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation, especially in confined areas.
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Environmental precautions

Environmental precautions	See Section 12 for additional ecological information.
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Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
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Methods for cleaning up	Pick up and transfer to properly labeled containers.
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7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. For precautions, see Section 2.
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Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials No Information Available. Bases, oxidizing agents, reducing agents, Acetone reacts violently with phosphorous oxychloride.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetone 67-64-1	STEL: 750 ppm TWA: 500 ppm	TWA: 1000 ppm TWA: 2400 mg/m ³ (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m ³ (vacated) STEL: 2400 mg/m ³ The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors (vacated) STEL: 1000 ppm	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m ³
Stearic acid 57-11-4	-	-	-
n-Hexadecane 544-76-3	-	-	-

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection Avoid contact with eyes.

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Appearance Clear, colorless liquid

Color	Colorless
<u>Property</u>	<u>Values</u>
pH	No Information Available
Melting point / freezing point	-94 °C -137 °F
Boiling point / boiling range	56 °C 133 °F (at 760 mm Hg)
Flash point	-16.99 °C 1.42 °F
Evaporation rate	No Information Available
Flammability (solid, gas)	No Information Available
Flammability Limit in Air	
Upper flammability limit:	13% (V)
Lower flammability limit:	2% (V)
Vapor pressure	No Information Available
Vapor density	No Information Available
Relative density	No Information Available
Water solubility	Miscible in water
Solubility in other solvents	No Information Available

Odor No Information Available **Odor threshold** No Information Available

Remarks • Method

Closed Cup
No Information Available
No Information Available

No Information Available
No Information Available
No Information Available

10. STABILITY AND REACTIVITY

Reactivity

No Information Available

Chemical stability

Stable under recommended storage conditions. **Possibility of Hazardous**

Reactions None under normal processing.

Conditions to avoid Heat, flames and sparks.

Incompatible materials

No Information Available. Bases, oxidizing agents, reducing agents, Acetone reacts violently with phosphorous oxychloride. **Hazardous Decomposition Products** No Information Available.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information No data available

Partition coefficient	No Information Available		Inhalation
Autoignition temperature	465.0 °C 869.0 °F		No data available.
Decomposition temperature	No Information Available	No Information Available	
Kinematic viscosity	No Information Available	No Information Available	Eye contact
Dynamic viscosity	No Information Available	No Information Available	No data available.
Explosive properties	No Information Available		
Oxidizing properties	No Information Available		

Other Information

Softening point No Information Available
Molecular weight No Information Available
VOC Content (%) No Information Available
Density No Information Available
Bulk density No Information Available

Skin contact No data available. **Ingestion** No data available.

Component Information

The table below lists only those components with available toxicological information.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Acetone 67-64-1	-	-	= 50100 mg/m ³ (Rat) 8 h
n-Hexadecane 544-76-3	-	-	-
Stearic acid 57-11-4	-	> 5 g/kg (Rabbit)	-

Information on toxicological effects

Symptoms No Information Available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No Information Available. **Germ cell mutagenicity** No Information Available.

Carcinogenicity No Information Available.
Reproductive toxicity No Information Available.
STOT - single exposure No Information Available.
STOT - repeated exposure No Information Available.
Aspiration hazard No Information Available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (inhalation-dust/mist) 100.60

12. ECOLOGICAL INFORMATION

Ecotoxicity

0.4 % of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Acetone 67-64-1	-	4.74 - 6.33: 96 h Oncorhynchus mykiss mL/L LC50 6210 - 8120: 96 h Pimephales promelas mg/L LC50 static 8300: 96 h Lepomis macrochirus mg/L LC50	10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50
n-Hexadecane 544-76-3	-	-	-
Stearic acid 57-11-4	-	-	-

Persistence and degradability

No Information Available.

Bioaccumulation No

Information Available.

Other adverse effects

No Information Available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Do not reuse container.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Acetone 67-64-1	-	Included in waste stream: F039	-	U002
n-Hexadecane 544-76-3	-	-	-	-
Stearic acid 57-11-4	-	-	-	-
Chemical Name	California Hazardous Waste Status			
Acetone 67-64-1	Ignitable			
n-Hexadecane 544-76-3	-			
Stearic acid 57-11-4	-			

14. TRANSPORT INFORMATION

DOT

UN/ID no.

Not regulated

Proper shipping name

UN1090

Acetone

Hazard Class	3
Packing Group	II
Reportable Quantity (RQ)	5000 lbs

UN/ID no.	UN1090
Proper shipping name	Acetone
Hazard Class	3
Packing Group	II

UN/ID no.	UN1090
Proper shipping name	Acetone
Hazard Class	3
Packing Group	II
EmS-No.	F-E, S-D

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40

CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health hazards 2	Flammability 3	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 2	Flammability 3	Physical hazards 0	Personal protection X
<i>Chronic Hazard Star Legend</i>	<i>* = Chronic Health Hazard</i>			

Issue Date 29-Oct-2019

Revision Date 29-Oct-2019

Revision Note
No Information Available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.

End of Safety Data Sheet